The Mining Journal MMERCIAL GAZETTE

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 658 .--- Vol. XVIII.

LONDON, SATURDAY, APRIL 1, 1848.

PRICE 6D.

Stannaries of Corntrall - In the Vice-Warden's Court.

OTHERWISE SAINT AGNES CONSOLIDATED MINES OTICE IS HEREBY GIVEN, that the SALE of the ENGINES, MACHINERY, MATERIALS, and EFFECTS upon and belonging the above-mentioned MINES, is POSTPONED until the month of APRIL next.

For GRYLLS & HILL, Solicitors, Helston.

SALE OF LEAD ORES AT ALSTON MOOR.—The folwing PARCILLS of LEAD ORE—namely: Computed weight Art fundorms full Mines—Parcel 1. 400 bings.

Neat Hall, Aston, Cumberland, March 39, 1848.

A BSOLUTE SALE OF SHARES IN WEST CARADON and GONAMENA MINES.—TO BE SOLD, BY PUBLIC AUCTION, by Mr. JOHN YEO, pursuant to an order of the High Court of Chancery, made in the suit of "Rundle e. Rundle," at Moorshead's Royal Hotel, Devonport, on Thursday, the 18th day of April next, at Two o'clock in the afternoon precisely, in the lois particularised in the printed catalogue and conditions of sale, SIX (256ths) SHARES of and in all that productive and well-known COPPER MINE, called wEST CARADON, situate mear LIS-KEARD, in the county of Cornwall. Also, SIX (256ths) SHARES of and in all that valuable college and conditions of sale, SIX (256ths) SHARES of and in all that valuable college and conditions of sale, SIX (256ths) SHARES of and in all that valuable college and the sale of the sale of

ARK MINING COMPANY.—SALE OF MATERIALS—comprising a PUMPING-ENGINE, 48-inch cylinder, 9 ft. stroke, with two boilers, of about 90 tons, with steam-chest, 15 feet long, 2-feet 6-inch diameter.

A WHIM-ENGINE, 18-inch cylinder, 4 feet stroke (double), with two boilers, of

A WHIM-ENGINE, 18-inch cylinder, 4 feet stroke (double), with two boilers, of about 7 tons.

A CRUSHING MACHINE, complete, one pair of rollers, worked by a water-wheel, 12-feet diameter, 2-feet breast, with a stamp's axle, to work six heads, attached.

29 fathoms 13-inch pumps; 57 ditto 9-inch ditto; 24 ditto 8-inch ditto; 17 ditto 4-inch ditto.

1 18-inch pumper, case, pole, &c., complete; 1 10-inch ditto ditto; 1 9-inch ditto litto; 2 8-inch ditto ditto; 1 3-inch ditto ditto; 1 3-inch ditto ditto; 1 3-inch ditto ditto.

1 8-inch working barrel, complete; 1 6-inch ditto ditto; 2 44-inch ditto ditto.

26 pairs best irou straping-plates, about 6 tons.

40 hathoms of 8,9, 10, and 11-inch shaft-rods (wood).

40 fish-fod and y-inch bucket-rods (iron).

40 fish-fod and y-inch-chain pulleys; 100 fathoms 3-inch whim chain.

1 pair shears, 36 feet, with sheaves and brases, complete.

1 caystam's 4-inch, vasi-irou axles and sockets, with 150 fathoms of 10-inch rope.

A large quantity of useful iron and materials, fittings of office, complete set of smith's tools, sarning fishe, and many other articles.

For further particulars apply to A. J. Le Meaurier, Esq., Guernsey; or to Mr. Matthew Loan, Liskeard, Cornwall.

TO BE SOLD, OR LET, a valuable COAL MINE, in the township of GREAT HARWOOD, in the county of LANCASTER. The mine has con recently proved, and found to be 3 feet 2 inches in thickness, and of excellent quadry; it is commonly called, or known, by the name of the UPPER MOUNTAIN MINE, and extends over about 1000 statute acres, which will be divided into suitable lots. The property is situated between the towns of Blackburn and Clitheroe, and is interceted by a branch of the East Lancashire Railway.

A section of the borings may be seen, by applying to Mr. Boosle, Rufford-hall, Ormstric or for Mr. Whittle, coal viewer, Charnock Richard, Chorley—to either of whom reposals may be sent.

TO CAPITALISTS.—An opportunity, which rarely occurs, now offers for the INVESTMENT of a MODERATE SUM in a rich TIN MINE, and the county of Devon, known by the name of EAST BIRCH. TOR.—Many thousand pounds worth of tin have already been sold from this mine; the lodes have been extended on, and tributers are now at work. It is desirable, from the rich source of the gone down, to sink to deeper levels; it has, therefore, been determined to augment the capital, by an issue of new shares, which are now in course of appropriation. A box of specimens has just arrived from the mine, and any party calling at the office, No. 1, Copthall Chambers, Copthall-court, Throgmerton-sireet, City, can see the same, and where all particulars may also be obtained.

Application for the few remaining shares must be made on or before the 25th inst.

XTENSIVE IRON-WORKS.—FOR SALE, BY PRIVATE

EXTENSIVE IRON. WORKS.—FOR SALE, BY PRIVATE
BARGAIN, the BLAIR IBON-WORKS, belonging to the Ayrshre Iron Company, altraated in the partsh of Dairy, and county of Ayr.
These works, which have been receptly erected at an immense cost, consist of two blow-log-cingines, five bleat-frances, workment's houses, steam-engines for working the minerals, together with utensils at the pits, furnaces, &c., all in working order, and capable of producing upwards of \$5,000 tone of pig-iron per annum.
One of the blowing engines, high-pressave, estimated at 90-horse power, was ergoded in 1841; the oliver, a condensing engine, was creeded in 1847, and is estimated at 90-horse power, the latter being capable of blowing five furnaces, and both fitted up in the most substantial manner, and at present in the best working condition.
The furnaces have been erected with the greatest care, and are fitted with air-heating apparatus of the most approved construction. The make of each furnace has generally averaged upwards of 150 tons of iron per week, and some of them have produced 189.
There are, besides the manager's house and store buildings, 181 workmen's houses, in a habitable state, attached to the furnaces and pits, and there are 20 partly built, which could be finished at a small additional outlay. There are also a new foundry, wright shop, fire-brick work, smithy, &c.
The MINERAL FIELDS, consist of COAL, IRONSTONE, LIMESTONE, and FIRE-CLAY, held in lease, by the company, at moderate fixed routs and Royalties, all situated within easy distances of the furnaces, and for the most part have the advantage of railway communication.

The COAL-FIELDS consist of several hundred acres, of which only a small portion has

ommunication.

The COAL-FIELDS consist of several hundred acres, of which only a small portion has gen wrought. Several pits, fitted with good engines and machinery, are sunk to the oal, and partly in operation.

The HRONSTONE consists of the well-known black-band, yielding about 3000 tons of ficined stone per acre; and it has been estimated that there are 300 acres or thereby will to work—besides which, there is a large extent of clay-band frontstone, litther bittle trought, but capable of yielding a large output. There are 15 pits, with excellent steamongines—some of them in present operation, and others ready to resume working.

The LIMESTONE QUARRY is worked by open cast, and is connected with the
yealway.

The LIMESTONE QUARRY is worked by open cast, and is connected with the works by railway.

The FIRECLAY is abundant, of excellent quality, and cheaply produced, The Glascow, Paisley, Kilmarnock, and Ayr Railway (extending to Carliale), passes close to, and has connection with; the furnaces—by means of which, and others in connection with it, the produce can be conveyed to the city and port of Glascow (22 miles off), and to the seaports on the Ayrshire closat, each within a few miles of the works.

There is a large stock of celende ironstone, cost, and limestone on the ground, so that the works may be put into immediate operation, and, under indicious management, the dishirafecture of pir-iron may be carried on to the greatest advantage. The concern will be fethed to be well worth the attention of persons having the requisite capital, and affords an opportunity of entering into the business seldom to be met with.

MALLEABLE RON-WORKS.—Considerable progress has been made in the erection of extensive malleable works, which, when completed, will be capable of turning out 360 tons of bar-iron weekly. The most of the necessary machinery has been prepared by the connectors; and a portion of the work could be brought into operation in a few mounts to produce the half of the above estimate. This work is nearly adjoining the Fig Pron-Works, and connected by railway, and will be sold either together therewith or separately.

Plant of fish property and mineral workings lie for inspection at the Ayrshire Iron Co. Sections, 113, 35. Vincent-street, Glasgow, where, on application to Mr. Brown, cvery necessary information will be afforded, and orders given for inspection of the works.

STEAM-ENGINES.—From 8 to 20-horse power ENGINES ALWAYS IN STOCK.

Apply to Mr. CAPPER, Engine-Maker and Founder, BHMINGHAM.

Price—E12 to 216; with boller, 222 per horse.

MOST VALUABLE SPECULATION.—TO BE SOLD, under peculiar circumstances, a were great barragin, a SECTION OF LAND, con-

VALUABLE TIN SETT FOR SALE.—TO BE SOLD,
BY FRIVATE CONTRACT, the SETT of WEST WHEAL BEAM MINE, with
the MACHINERY, WHEELS, FUMPS, ENGINES, &c., in the most perfect and complete state for the effectual working of the saine.

WEST WHEAL BEAM is suitaged in the centre of a rich mining district, near ASHBURTON, DEVON, and is to be sold for a term of 21 years, subject to the dues of i-18th
and a lord's rent. The sett extends over about 1000 fathous in length, on the course of
the lodes, and 700 athours in width. Several tin and copper lodes run through the sett,
only two of which have been opened, and from those large returns have been made.

The mine being supplied with all requisite machinery and erections, and possessing inample water-power, can be worked to the greutest advantage with little outlay.

Application for further information may be made to James Woodley, Esq.; the proprietor, at the office of Mr. George Casarier, solicitor, Ashburton; or to Mr. Richard
Bracewell, London Inn, Ashburton.

VALUABLE SEA-SALE COLLIERIES TO BE LET.-TO BE LET.—

TO BE LET. and entered upon on the ist of July next, the valuable currentworking COLLIERIES of EVENWOOD and NORWOOD, in the county of Durham.

These collieries are attasted upon the line of the Stockton and Middlesborough; and
also, by means of this, and the York and Sweattle, and Leeds and Thirsk Rallways, the
coals have access to the important land-sais trade of Northallerton, Thirak, Ripon, York,
the lead-mining districts, and of their towas in Torkshire, and for shipment on the Ouse;
and, by means of the proposed Northern Counties Union Hallway, with the important
land-sale trade of the western parts of Yorkshire and Forthallerton, Thirak, Ripon, York,
the lead-mining districts, and of their towas in Torkshire, and for shipment on the Ouse;
and, by means of the proposed Northern Counties Union Hallway, with the important
land-sale trade of the western parts of Yorkshire and Westmoreland.

The royalides are very extensive. Two seams of coal are in working—one upwards of
6 feet, and the other of 3 feet. The pits are at a snotewards depth from the suffices, and
the coal is worked at an exceedingly cheap rate, and is much prized as a household coal,
both for export and land-sale.

The experimg tenant has the option of taking what stock he may require, at a valuation; and tile amount of capital required to enter upon the collieries will be of very
small amount.

Eq., Newcastle-upon-Tyne.—Newcastle, March 3, 1848.

VALUABLE PUMPING AND WINDING ENGINES FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL VOR MINE, in the parish of BREAGE, CORNWALL.—

1 90-inch DRAUGHT ENGINE, 10-fact stroke in cylinder, and 9 feet in shaft, main beam and case, top nozzie, spring piston and rod—all new this year; with four bollers, of 12 tons each, in secellent repair.

1 80-inch DITTO, 10 feet stroke in cylinder, 74 feet in shaft, cylinder, piston, bolton and cover, nearly new, with two boliers, of 12 tons each, and three bollers, of 10 tons each, all lately theroughly repaired.

1 49-inch DITTO, 9 feet stroke in cylinder, 3 of 12 tons each, and three bollers, of 10 tons each, all lately theroughly repaired.

1 49-inch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without bollers.

1 20-inch WINDING ENGINE, 5 feet stroke, with two bollers, of 4 and 6 tons, and vertical cage, all in complete repair—the bollers and some other parts nearly new.

1 18-inch DITTO, 4 ft. stroke, with one boller, of 5 tons, and horizontal cage, complete. Several TONS of straight and turned STEAM-PIES.

12-head CAST-IRON STANTS AXLES, with bearings, oak frames, &c., complete. A powerful wEighling McMilta, marry how, comprising every requisite.

A new firm the strong of the stroke with watering barrels, doorpleess, H-pieces, cases, with stuffing-boxes and glands to match, from 14 to 19 inches bore, and plunger-poles, from 12 to 19 diameter. Paggotted rod and cap plates, 6, 7, and 8 inches wide, staples and glands, eyeruners, caps, saddles, troughs and grudgeous for balance and other bobs.

Applicating to be made to Capt. R. Right, jun., on the mide.

Dated Nov. 29, 1847.

N.B.—The above are of easy transit to Hayle whars, and from thence on ship-board, equired.

SOUTH WALES.—TO BE SOLD, in LLANDILO TALYBONT parish, near SWANSEA, the FREEHOLD FARMS, called PENGELLYDDRAIN TYRBACH and BRYNLIWYD, containing 75 series, more or less, together
with the valuable VEINS of COAL, IRONSTONE, and other MINERAL3. The coal is
of excellent quality for steam-packet purposes, and adjoins, and is partly intermixed with,
the property now worked by the Cameron's Coabrook Steam-Coal Company. A considerable portion of the coal under this property may be wan at a very small cost.

For particulars annier to Mr. Hissen, Williams. ble portion of the coal under this property may be won at a very For particulars apply to Mr. Heram Williams, No. 61, Moorgate

TRONG MIXING PIG-IRON.—The YSTALYFERA
IRON COMPANY beg to solicit ORDERS for their ANTHRACITE PIG-IRON.
This iron mixes well with Scotch pig-imparting to it strength and elasticity, and receiving from it a portion of its softness and fluidily. No. 3 Pig is recommended for mixing with soft iron—Nos. I and 3, for machinery castings, requiring great soundposs and strength. At this period, when cast-iron its so much employed in the construction of bridges and other buildings, requiring all the strength and elasticity which the best mixture of metal will afford, it may be interesting to call attention to the characteristics of ANTHRACITE PIG-IRON, as arroughed on by that great practical authority, the late DAVID MUSHEY, ESq., M.I.C.E.:—"If greatly exceeds, in strength, in defective powers, and capacity to resist impact, any iron at this time manufactured in the United Kingdom."

"It now only remains for me to mention a property peculiar to this Iron, which was

iron at this time manufactured in the United Ringdom."

"It now only remains for me to mention a property peculiar to this iron, which was noticed at the time I made the trial experiments, four years ago, but which has been more fally developed in those more recently made. The property referred to its one of great springiness, or staticity, which communicates a tendency to the bar, in deflecting and treaking, to resume its rectangular form. Here that had obtained a permanent set of 2-10ths, when afterwards broken, presented but a slight deviation from a right line; and in no ease, did the curvature exceed one-fourth of a tenth."

"It was also remarked, that most of the fractures, in breaking, presented a regularity of grain throughout, resembling the structure of unhardenes steel."

Address "THE YSTALYFERA RION COMPANY, Dated June 22, 1847.

Near NEATH, SOUTH WALES.

HOT-BLAST WITHOUT COAL, LABOUR, OR REPAIRS.
DIXON AND BUDD'S PATENTS. Apply for particulars, J. Palmer Budd, Esq., 1 Dated June 22, 1847.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CHYLON, MADRAS, CALCUTTA, PERANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th; and from Suez on or about the 10th of every month.

For rates of passage-money, plans of the steamers, and to secure passages, apply at the company's offices, No. 122, Leadenhall-street, London.

A DCOCK'S PATENT SPRAY PUMP.—This important INVENTION having been PERFECTED, and brought into SUCCESSFUL PRACTICAL OPERATION, the PATENTEE is ready to RECEIVE, and to excente ORDERS.—Apply to Henry Adock, C.E., at his offices, No. 2, Moorgate-street, London, where pamphlets, descriptive of the Invention, may be had; at the office of the Moning Journal, 26, Fleet-street; and through any respectable bookseller—price 6d.

A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELITING-WORKS, and MANUFAC TORIES, that he still continues to COMDUCT ASSAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, a the LABORATORY,

23, HAWLEF-ROAD, KENTISH TOWN, LONDON, to which address communications are to be forwarded.—Instruction in all branches of assaying and analysis as usual.

CALINGTON MINES COMPANY.—At the Fifth Annual General Meeting of shareholders in this company, held this day, it was Resolved,—That the report and accounts now read and submitted be adopted by this meeting, and entered in the cost and transfer below of the company.—Carried unanimously. Resolved.—That John Garnet Tyne, Esq., the director retiring from the direction of the company.—Carried unanimously.

Resolved.—That the auditors, Messar, Hammend and Leary, who retire from the reflect of the company.—Carried unanimously.

Resolved.—That the auditors, Messar, Hammend and Leary, who retire from the reflect of auditors, and who offer themselves he re-elected, be re-elected the auditors of

OLD SMELTING—The directors of the ORANGE GROVE T MINING INCORPORATION, in the State of Virginia, U.S., wish to ENGAG the SERVICES of a PERSON PRACTICALLY ACQUAINTED with the SMELTIN of GOLD ORE. Satisfactory proof will be required of his capability, and a person won be preferred who can superintend the works and machinery, where from 19 to 180 m are at work night and day.—Apply to Messra, Walker, Grant, & Co., No. 13, King's-roa Bedford-row, London, attorneys for the corporation, who will communicate with one the directors now in this country.

N.B.—An underground mining dial wanted to purchase.

TO MINING CAPTAINS .- WANTED, an experienced MINING CAPTAINS.—WANTED, all experiences
MINER, of good general ability and active fability to proceed forthwith to CA
NADA, to undertake the SUPERINTENDENCE of a COPPER and SILVER MINEApplications, stating age, nature of present and previous employment, with recommen
dations and amount of alary required, to be addressed to Mesers. Carter and Bonus,
Leadenhall-street, London.

TO BE SOLD, BY PRIVATE CONTRACT, an excellent a boiler of 10 tons.—For particulars, application to be made either to Mr. John Tippe, auctioneer; or Mr. H. Ellery, Truro.

N.B.—There are also several tons of pitwork—viz., 18 pumps, 13-inch; 2 working—barrels, 13-inch, nearly new; 2 doorpieces, and 2 windbores.

FOR SALE, BY PRIVATE CONTRACT, a NEARLY NEW ENGINE, on the combined principle of Messrs. Harvey and Co., from the ngs of Mr. W. West, with 60 and 92-inch cylinders—equal to 141-horse power.

Apply to Mr. P. N. Johnson, 79, Hatton-garden, London.

FOR SALE—A THIRD PART in one of the most promising MINES in WALES—situated within a mile of water-carriage, and advantageously located for the working by water-power. The lodes have been partially worked, yielding greaturns of lead ore, and are laid open to a great extent—presenting the most avourable appearances, with large quantities of basytes, from which immediate returns may be made.—For price and particulars, address "X.," care of Mr. Ward, accountagt, No. 26, Nicholas-lane, City.

LEVANT MINE—BOTALLACK MINE.—FOR SALE, parish of ST. JUST, in the county of CORNWALL; also, ONE (200th) PART, or SHARES, in the LEVANT MINE, situate in the parish of ST. JUST, in the county of CORNWALL; also, ONE (200th) PART, or SHARE, in the BOTALLACK COPPER and TIN MINE, situate in the same parish. In the latter mine very promising discoveries of copper have been recently made.

For further particulars, apply to Messrs. Tilson, Squance, Clarke, and Morice, No. 29, Coleman-street, London.

DLAENGWAWR STEAM COAL, CARDIFF—placed on the List of Coals supplied, by Contract, to the Government.—ORDERS for the ELAENGWAWR STEAM COAL RECEIVED by Mr. W. F. STANTON, No. 9, LOVE-LANE, EASTCHEAP; or by Mr. George Sully, agent, 1, Bute-street, Cardiff, Glangry-ganahire, South Wales.

WILLIAM W. TAYLOR & CO., MINERAL SURVEYORS,
MINING SHAREBROKERS, &c.,
No. 2, ROYAL EXCHANGE BUILDINGS, LONDON.

MR. R. TREDINNICK, THREE KING'S COURT,

LOMBARD-STREET, LONDON,

Cordinues to DEAL in every description of MINING, RAILWAY, BANKING, INSURANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously,

upon personal application.—MONEY ADVANCED upon the above securities.

TAMES LANE, MINING SHARE DEALER

WILSON & FRASER, 2, WELLINGTON-BUILDINGS
LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always on SALE
PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

PIG-RON, BAR-HON, RAILWAY URAIDS, MARCHEST, The BUSINESS Dot these OFFICES will beneeforth BE CONDUCTED at No. 28, FLEET-STREET, LONDON, and No. 4, STAMF-OFFICE BUILDINGS, MANCHESTER, to either of which offices cemmunications are requested to be addressed. The correspondence and reports, with the accounts, of the respective companies may be inspected at all times, on application.

British Mining Offices, Feb. 17, 1848.

JAMES TRUSCOTT.

MONEY.—MESSES. KILLICK & CO. (late Winstanley, make IMMEDIATE ADVANCES, to any amount, on the deposit of English and Foreign Railway Shares, Serlp, and Debentures, upon exceedingly advantageous terms: they also BUY and SELL every description of STOCK and MINING SHARES, at much less commission than usually charged.

6, Bank Chambers, opposite the Bank of England.

A USTRALIAN MINING COMPANY, 1, Adelaide-place,
London-bridge, March 27, 1848.—The board of directors hereby give Notice, that
a SPECIAL GENERAL MEETING of the shareholders will be HELO at the company's
officek, No. 1, Adelaide-place, London-bridge, on Monday, the 17th of April next, at One
o'clock precisely, for the purpose of submitting to them Capt. Phillips' first reports
the state of the mining operations of the company.

J. A. JOSEPH, Secretary

BLAENAVON IRON AND COAL COMPANY.—Notice is heroby given, that the ANNUAL GENERAL MEETING of the shareholders of this company will be HELD at their offices, Pancras-lane, London, on Friday, the 29th of April next, at Two o'clock precisely, when the accounts and transactions of the payer will be laid before them.

By order of the board,
Offices, 4, Pancras-lane, London, March 24, 1848.

JAMES BOOTH, Services

COLOMBIAN MINING ASSOCIATION.—A SPECIAL.

GENERAL MEETING of the proprietors of this association will be HELD at this office on Thursday, the 6th of April, at half-past Two o'clock, for the purpose of taking into consideration the expediency of dissolving, the association, and winding up the affairs thereof.

By order of the board of directors, hereof.

By order of the board of directors,

E. R. JONES, Secretars

Office of the Colombian Mining Association, 13, Austinfriars, London, March 28, 184

MARKE VALLEY CONSOLIDATED COPPER AND
TIN MINING COMPANY.—The ANNUAL GENERAL MEETING will be
HELD at the White Hate Hotel, Salishuz, on Transflay, the 13th April nine; at Evelve
victock at mon.—All persons having any demand upon the company are required to
send the particulars thereof to the accreasty, on or before the 5th of April, in order that
the same may be audited before the meeting.

JOHN HAEDING, Sociolary 2.

MENDIP HILLS MINES.—At a Special General Meeting of the 24th March inst., it was

Carried unanimously.

Resolved.—That a special vote of thanks be presented to P. N. Johns invaluable services and attention to this company's business.—Carried as

ST. JOHN DEL REY MINING COMPA

TRELEIGH CONSOLIDATED MINING.
The directors percely give Notice; that a MEETING or the HELD at the office, on Monday, the 3-def April next, at One of accounts, for three months, ending after 11st March, will be late 57, Old Broad-street, March 15, 1845.

Transactions of Scientific Bodies.

	The state of the s	-	de
	MEETINGS DURING THE ENSUING WEEK.	Ħ	P28
THIS DAY			P.M.
MONDAY	. British Architects 16, Grosvonor-street		
	Chemical - Society of Arts, Addiphi	8	P.M.
	Medical-Bolt-court, Flost-street		P.M.
	Pathological-21, Regent-street, Waterloo-place	8	P.M.
TUBSDAY	. Linnman-Soho-square		P.M.
	Horticultural-21, Regent-street		P.M.
	Civil Engineers-25, Great George-street		
WEDNESDAY	. Geological Somerset-house	8	P.M.
	Society of Arts-Adelphi	8	P.M.
THURSDAY	. Royal - Somerset-house	8	P.M.
	Zoological-11, Hanover-square		
	Antiquaries-Somerset-house		
FRIDAY	. Royal Institution—Albemarie-street		
	Botanical-20, Bedford-street, Covent-garden	8	P.M.
SATURDAY			
Mileson	Westminster Medical -17, Saville-row	8	P.M.

On Seological Chemistry.

DR. DAUBERY'S LECTURE AT THE BOYAL INSTITUTION, ALBEMARIE-STREET On Friday evening, March 24, the celebrated Dr. DAUBENY, Professor of Chemistry and Regius Professor of Botany at Oxford, whose recent elaborate and valuable work on the volcanic forces has attracted so much attention in the highest walks of acience and literature, delivered a lecture at the Royal Institution, Albemarle-street, on "The Application of Chemical Principles to the Science of Geology." The spacious theatre of the institution was crowded with a most distinguished auditory, including some of the first men of nce and learning of this day, and a considerable number of ladies and gen-nen, the *elite* of rank and fashion, amongst whom the proceedings seemed

science and learning of this day, and a considerable number of laules and gentlemen, the clike of rank and fashion, amongst whom the proceedings seemed to excite the greatest interest.

The learned Doctor commenced his lecture with some preliminary observations, in which he said, he had for the last 12 months devoted his leisure to the accumulation and study of facts in relation to volcanic forces; and having, in this pursuit, travelled a good deal along the great boundary line dividing the two kingdoms of geology and chemistry, he had obtained glimpses of truths, which neither the pure chemist, nor the pure geologist might have had the same opportunities of observing—the result being, his entire acquiescence in the opinions of some of the greatest authorities of the present day, that geological inquiries ought, in future, to take more exclusively a chemical direction. The learned doctor then proceeded to allude to a subject of geological inquiry, which seemed to him above all others to demand the assistance of the chemist—namely, the metamorphic action which had taken place between certain contiguous but dissimilar rocks—the one of eruptive, the other of sedimentary origin. A large amount of information had been collected by geologists, in respect to different kinds of metamorphic action, and their effects; but as to the manner in which these effects were produced, they would look in vain, unless the chemist also were appealed to. One thing appeared to be established—namely, that the production of mineral veins was connected with the intrusion of plutonic rocks, and with the changes brought about by them in the contiguous strata.

pists, in respect to different kinds of metamorpine action, and their creation, but as the manner in which these effects were produced, they would look in vain, unless the chemist also were appealed to. One thing appeared to be established—annely, that the production of mineral veins was connected with the intrusion of plationic rocks, and with the changes brought about by them in the contiguous strata.

Few metallic depositis occurred in the secondary formations, and even these and with the other band, metallic with secondary formations, and even these and with the other band, metallic with secondary formations, and even the expect of the control of the con

secondly, the observation made by Henry Rose, that in every crystalline rock traces of copper might be detected by the test of sulphuretted hydrogen—thus suggesting, that if we had any equally delicate test for the other metals, they also might be ascertained to be present; and, thirdly, the fact, that not only iron, arsenic, and selenium, existed amongst the products of Vesuvius, but likewise lead, copper, since, and titanium, while tinstone also was ejected by Mount Etna. Now, assuming the existence of metals, and other bodies of rare occurrence, amongst the matters evolved from the interior of the earth by igneous processes, the second hypothesis stated would enable us to account for the diffusion of such matters through the substance of the contiguous strata, as well as for their local accumulation in fisures, or veins; for it was evident, that if these bodies were severally capable of undergoing volatilisation, at temperatures below that of their fusion, the heat, which, originating in the intrusive rock, pervaded the formations contiguous for a great distance around, would drive out portions of all these substances, causing them to become disseminated throughout the latter, and, where fissures existed, to enter in, and contribute to fill them. For this purpose, however, the heat must be long continued, as well as of a certain intensity; and hence, whilst metallic veins were frequent in connection with granite, they were entirely absent froin sub-serial lavas, owing to the more rapidly ecoling that would take place in the latter, than where the safter was thrown out under the sea, or at great depths beneath the surface. Thus, according to this theory, the accumulation of metallic matter in veins would have arisen, not from the latter having been the original receptacles of the province of the globe—for he agreed with the surface.

exciption of veins, being injected in a state of fusion from below, as trap and granite dykes were supposed to be, was encumbered with insuperable deficulties—but owing to the subsequent action of the heat upon the crupted matter, by which the metal might have been clowly volatilised, and thus have found its way into the fissures and cavities contigueus, when the principle of adhesive affinity, described by Prof. Faraday in his Memoir of the Limits of Emporation, would come into play; and no sooner was a thin layer of a metallic, or other body, collected along the walls of a cavity, than the portions subsequently sublimated would be determined to the same point, until the whole cavity was filled up.

six emy into the fearres and eavities contiguous, when the principle of ables we all fixing described by Prof. Essangia in his Messire of the Links of Fascoporation, wend come into play; and no sooner was a thin layer of a metallic, or other body, collected sleng the walls of a cavity, than the portions subsequently sublimated would be determined to the same point, until the whole cavity was filled sp.

The learned prefessor also alluded to Tilgman's discovery with regard to the decomposition of anany recks, and the formation of combinations between the alkalies and fixed acids. Various facts also proved that a certain exattation of temperature would favour the segregation and new combination of minerals, as that of nodules of film in chalk had been referred, but he thought it more probable that the deposition of silica was the result of the extraction of carbonic acid by the decomposition of animal matter.

He, therefore, suggested the importance of ascertaining by more precise experiments what were the laws which regulated the vaporiation of solids at temperatures below that at which they were faible. Assuming the truth of this principle, it three considerable light upon the alterations which contiguous strata underwent from the intrusive rocks—for, the supposing a certain degree of mobility to be produced by heat, without actual fusion, would enable us to understand these changes. The carnot locture then proceeded to discuss to mideration these changes. The carnot locture than proceeded to discuss to mideration these changes. The carnot locture than proceeded to discuss to mideration these changes. The carnot locture than proceeded to discuss to mideration these changes. The carnot locture than proceeded to discuss the most proper to the carnot process of combining with its ingredients in atomic proportions—entire to the contribution of processes of higher antiquity. When he reflected upon the assemblage of chemical oscilarity is prevented to the contribution of sulphuretted hydrogen—the volumes of steam and

as well as the soundest practical applications that admitted of being deduced from them.

The talented lecturer concluded amidst the enthusiastic plaudits of his audi-tory, and was immediately engaged by some of the scientific gentlemen who were present, in an animated discussion upon the novel points presented in this very interesting lecture.

INSTITUTION OF CIVIL ENGINEERS.

INSTITUTION OF CIVIL ENGINEERS.

MARCH 28.—JOSHUA FIELD, Esq. (President), in the chair.

The paper read was "The Engineering of the Rhine and the Moselle," by Mr. G. B. W. Jackson, Assoc. Inst. C.E. This communication was written during a short visit made to Holland, for the purpose of inspecting personally the works with which the author had become familiar in the writings of Beaudemouth, vanden Bergh, Delafontaines, Hibbert, Krayenhoff, Ockhart, and Wiebeking. It commenced with tracing the geographical course of the Rhine from its source on the Badns, in the canton of the Grisons, to its numerous outfalls into the sea. It then treated at considerable length the geological character of the country through which the river and its branches thus traversed. The ancient works, as far back as the time of the Romans, were then briefly described; and the general state of the bed of the river, with the comparative lovels, the inclination and the velocity of the stream, at the commencement of the modern works, were then laid down in a tabular form, as points of data; and then the capability of the Rhine for forming banks by warping, or depositing the matter held in suspension, was discussed. The remainder of the first-part of the paper was then occupied by descriptions of the modes of straightening the bed of the river, and of constructing the dams, weirs, division arms, spurs, and shore works, and the method of blasting the rocks, which latter considerably impeded the course of the stream. Our limits will not permit us to follow the details of these works, which latter see sessimitally from any in our own country, but the whole proceedings appeared to be given with such precision, that the paper, which latter considerably impeded the engineering works on the Moselle, compiled chiefly from a paper of Mr. Vanden Bergh, the emineat engineer, under whose direction the works had been executed, was reserved for reading at the meeting of Tuesday, April 4.

LEITH HARBOUR IMPROVEMENTS.—Operations are at present in progress for the removal of a portion of the massive sea wall which forms the northern boundary of the wet docks, Leith, preparatory to the commencement of the new dock for steam-vessels. Owing to the solid construction of the wall, its removal is a work of much difficulty; and the foundation stone of the new works will not, in all probability, be laid for a month or two. The improvements on the port are to be effected in terms of the bill, passed in the last session of Parliament, authorising the construction of extensive works, at the estimated cost of 185,000,, which has been found necessary, in consequence of the want of accommodation for steam-boat and other traffic.—North British Daily Mail.

Daily Mail.

RAILWAY ECONOMY—LONDON AND NORTH-WESTERN RAILWAY COMPANY.
—This company will, in a few weeks, be in a position to supply the Camdentown and Euston-square stations and hotels with water from a well which they have sunk at the former place. They at present pay 400l, per annum for the water required at the Camden-town station, and which they are themselves at the expense of pumping out of the Regent's Canal. The sum asked to supply the Euston-square station is 700l, per annum, and for the water supplied to the hotels 100l, per annum is charged. The well in question has, with the pumps, mains, &c., cost about 3100l., for which outlay the company will save 1200l. per annum.

RAILWAY BRIDGE AT FOLKESTONE—The bridge recently constructed at a

1200l. per annum.

RAILWAY BRIDGE AT FOLKESTONE.—The bridge recently constructed at a large outlay by the South-Eastern Railway Company, under their engineer, Mr. Bull, is about to assume a novel appearance. Several workmen, during the past week, have been engaged in erecting stages, &c., prior to the alteration of the principle—the ends of the bridge having dropped, so as to fall in acting upon the rollers provided for that purpose. It has been deemed expedient to suspend them by iron rods, so as to keep the sides and centre curved ribs in their respective places. When finished, the bridge may be aptly termed a swivel and suspension bridge.—Canterdary Journal.

CARETAGE OF FISH ON RAILWAYS.—The Great Western Company are taking about 250l. per week for the carriage of fish, from the coast of Devon, for the London market.

Saveral plates of iron have recently been rolled at the Shrebbery Iron-Works, Wolverhampton, respectively weighing, when finished, 1680 lbs. each.

The Metallurgical Creatment of Gres.

Chain-supply-one affect in 3-1 place. The supply-one affect in 3-1 place of the supply-one affect in 3-1 pla

	First.	Second
Sflica	. 50.6	43.8
Alumina magnada	. 93.4	17.2
Lime	7.8	18.0
Oxide of copper	9.8	
Oxide of iron	. 9.0	7:2
Sulphur	. 40	2.4
Loss by calcination	. 0·A	6.0
Loss by carculation		
	04.4	09.1

The reasting then removes water, bitumen, the greater part of the carbonic acid, and a portion of sulphur. The reasted schists are fused in a siag hearth, furnished with two tuyeres, and are thus disposed in separate layers:—20 cwts. of forruginous schist; 14 cwts. calcareous ditto; 6 cwts. argillaceous ditto; 2 cwts. dross, or scales; 3 to 32 cwts. five siag.—48 cwts. The furnace being heated, it is half filled with charcoal, and the charge commenced by adding the siag. When the hearth is full, the blast is let on, and the ore added; the charges are then preportioned, according to whether coke or charcoal is burnt. It charcoal, 30 hs. of charcoal, 150 hs. schist, 75 hs. coke, 25 cwts. of copper matt containing from 44 to 45 per cent. of copper, 2 cwt. "iron lumps, cwt. of siag, 4 cwt. of dross. The fusion with coke does not last as long, and furnishes less iron lumps. The matt and siag separate in the receiving basins. To give an exact idea of this operation, each of these products will be examined. The analyses are by Berthier. The matt is composed of copper, 89-6; iron, 13-2; sulphur, 32-2; anal, 0.6 "99-6; or sulphure to copper, 77; sulphure to from 31 –99. The composition of the "tron lumps" is remarkable; they contain—lron, 58-4; cobalt, 7*8; copper, 50; sulphur, 19-2; magnesis, 2*4; protoxide of iron, 13-2; fluoric acid, 12; alkali and loss, 2*0-100.

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From these analyses, we see the principal products of fusion are earthy and fi truginous silicates, an alloy of fron, and cobalt, containing a little copper; and, lastly, a mixture of sulphuret of iron and sulphuret of copper. The addition of fluoride of calcium (fluor spar) increases the fusibility of the stag, either by its own fasibility, or by furnishing lime to the silica, by its transformation into fluo-silicic acid, which is disengaged, and silicate of lime, which is left.

[In the Ministry Journal of Saturday next, we propose to continue an account of this interesting portion of our subject.]

THE RAILWAY GAUGE QUESTION.

THE RAILWAY GAUGE QUESTION.

[FROM A CORRESPONDENT.]

As the question relating to the gauges is creating such intense interest and rivalry amongst railway circles, it may, perhaps, be interesting to the public, if we offer to it a few remarks with reference to the introduction of the 4 ft. 8½ in. gauge. It is established, beyond all doubt, that the abovementioned gauge is attended with many disadvantages, to which that of 5 ft. 2 in. is not liable; and, had such been the established gauge of this country, as it is in Ireland, many inconveniences would have been obviated, which now exist in the working of railway lines. It has been frequently asserted, that Messrs. George and Robert Stephenson were the originators of this gauge—true it is that they adopted it, but equally untrue that they invented it. The 4 ft. 8½ in. gauge was employed in the collieries of Newcastle to a great extent, for many years before the introduction of steam for railway 'transit—and, consequently, was the uniform gauge of these large mining districts for the conveyance of coals, &c. There is but little doubt, that when this 4 ft. 8½ in. gauge was first used in the northern districts, no idea was ever entertained as to its universal extension, as a national gauge. But, in the first place, we can confidently state, that the rails were laid down, without reference to measurements, and the carriages made to suit the gauge. Messrs. Stephenson, being well aware to what extent this gauge was adopted in mining districts by proprietors (and also of the great and serious loss which would necessarily attend the breaking up of the old gauge), although they did not recommend the alteration of those lines already established, still preferred and used the 4 ft. 8½ in. gauge for all lines which were constructed under their own superintendence. Again, if Messrs, Stephenson had introduced a 5 ft. 2 in. gauge, it would have either caused a great deal of loading and unloading of the coals intended to be carried per rail; or the owners must have encountered

the vox populi, and alter their gauge; for, although such a course would compel them to be contented with a lesser dividend for a time, even that were preferable to their present isolation, and, there is too much reason to fear, consequent ruin,—C. E.

New AND POWERFUL NARROW-GAUGE LOCOMOTIVE.—A new locomotive, of somewhat unusual dimensions, is in the course of construction at the London and North-Western Company's Works at Wolverton. Whatever merit may be found to attach to the plan of the engine will, we believe, belong to Mr. McConnell, the locomotive superintendent of the London and North-Western Railway. One of the difficulties against which the narrow-gauge engineers have had to contend, in their endeavours to compete with the powerful engines belonging to the Great Western Company, has been the comparatively circumseribed width of the fire-box. To obviate this difficulty, Mr. McConnell has departed from the ordinary mode of keeping the fire-box within the width of the gauge (4 ft. 8 ft. m.)—or, in fact, transversely within the wheels. He gives a fire-box to the fire-box to the

and resolved to-day. To say that this useful invention can be applied to old engine, land, becomotive, or marine—and at a trifling cost, is, we believe, to render a veritable service to our industry. Independently of the conomical advantages procured by the new system of valves, they ensure also to the engine a movement more smooth and regular. SUGGESTED IMPROVEMENTS IN MACHINERY. From observations made during a recent visit to Birmingham, I am convinced in my presupposed opinion, that the vibratory motion of the engine, and also of the train of carriages, is not only detrimental to the apeed, but also tends very much to assist any trifling impediment on the rails to throw the engine and train of the line. This motion is caused by the weight of the boiler and heavy apparatus appertaining to the engine (and the same objection is to be found with the carriages) being placed above the axiletrees, instead of being brought as close to the base as possible, it being the centre of gravity vibrating from the base which causes this at all times disagreeable and frequently highly dangerous motion. To obviate this, I should recommend, in regard to the engine, that the boiler should be situated entirely beneath the working shaft, and that the cylinders, pistons, &c., should be placed above the boiler, in a horizontal position. It will be evident from this arrangement of the machinery that the working wheels, as they are technically called, are those wheels which are impelled by the direct communication of the connecting-rod to the crank shaft affixed to them, may be considerably enlarged, say double the size they at present are—(viz., 5.1.)—with case, or even more; but, from the sake of clearness, I shall say 10 ft. The following advantages would result from this arrangement—I have the first place, in the old form of engine—that is to say, the one at present used—a wheel of 5 ft. diameter will pass over, in one revolution, somewhere about 15 ft.; this engine can be made to travel, with difficulty, with a train, at 4 of mil

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before the friction amounts to the same as in the present form of engine travelling at the rate of 40 miles an hour. The only objection I can discover to this form is, that the undulating (not the vibrating) motion would be found more disagreeable than on the old plan. In another part of this sheef I shall endeavour to obviate this defact; but, it must not be overclooked that there will be no vibratory motion at all, even at the great speed of 80 miles an hour, and that this engine will perform 80 miles an hour with the same facility, or even with greater, than the present engine would 40. The water tank on the tender attached to the engine should also be placed beneath the axietrees (the axietrees of the tender of course), and the body of the passenger cars should also be placed as much below the axietrees as possible, say to within 6 in. off the road or level of the rail. The wheels of the passenger cars and tender should be increased in size, say 5 ft. for the minimum. It is very clear that the friction in such an engine, and with such a train, will at least be much less, even if nothing clas is gained, than in an engine, and with a train of passenger cars, on the present construction. The cause of the undulating and with a train of passenger cars, on the present construction. The cause of the undulating and with a train of passenger cars, on the present construction. The cause of the undulating and with the carriages and engine have from side to side of the road, at least so first as the flanges on the wheels will permit this digression from a perfectly true or straight course, keeping in view, as a matter of necessity, the turns of the road—is in consequence of the wheels being flanged on the inner side or tire of the wheel only, and thus causing the carriage, engine, or whatever wheeled conveyance it may be, to be continually undulating, or the flanges of the wheels on the opposite side acting on the other rail, and thus the motion is caused. To obviate this, both sides of the wheels should be flanged, bo

be much enhanced, as the wheels, being manged on both sides, will render it amines ampossible that the engine or train should run off the rails.—J. M.: Rock Ferry, March 27.

—Liverpool Standard.

EAST INDIAN RAILWAY.—Upon this important subject we have now very full and definite accounts. By the last mail, it was officially announced, that the committee in India had acted with promptitude and decision, upon the receipt of the intelligence from home of the altered state of the money market, and its possible influence upon the company's proceedings. It appears that the committee have taken a course, which, of all others, was the most prudent, and certain to secure the approval of the directors and their proprietary, as well as to protect the undertaking from any risk of being otherwise affected than by the delay and loss of time which could not be avoided. These measures, for which the greatest credit is due, appear to have been the immediate cessation of all active works—expenses stopped—the engagements with the staff compromised by mutual consent—the committee having themselves taken the initiative, by offering to receive, under the circumstances, reduced salaries; and the company hereby placed in the most advantageous position, at the least possible cost, to take full advantage of an amended state of affairs. Advantage, it is understood, has also been taken of the interruption in the progress of the works, to call the attention of Government to the several minor points in the proposed contract, which were to be left for decision by the local Government; and, it is believed, that the revisal of all the conditions will lead to even more favourable terms being conceded by the Court of Directors, should they, upon consideration of the altered circumstances in which all parties are placed, deem such alteration to be essential to the accomplishment of the importance of railway communication being early introduced into India, and no apprehension need be entertained but that any reasonable measures will be sanctioned

yery few who have not a direct or indirect interest.

GRAVESEND AND MILTON RAILWAY.—This work, at Gravesend, and its neighbourhood, is progressing rapidly, and the cutting through the town will be completed in a few weeks, if we may judge from its present progress. We learn that a temporary station will be erected in the heart of the town for carriages between Gravesend and Chatham, as the present station is at a very inconvenient distance. We have been informed, that the whole line will be open from Chatham to Greenwich by the end of August; but this may reasonably be doubted, seeing that there is a vast portion of the line between Gravesend and Greenwich to be yet completed.—Maidstone Journal.

X South Devon Railway.—The uprights for the electric telegraph are in the course of erection between Totnes and Marley, and the workmen on the line are in full employment; still there is much work to do before the line will be ready for opening. It has been stated, by those well conversant with the subject, for some weeks past, that the opening to Laira will not take place until the 1st of June next.

Subject, for some weess past, that the opening of Jana with the stof June next.

X Van Diemen's Land Company.—The annual meeting of this company was held at the offices, Great Winchester-street, City, on Friday, the 31st ult.—
J. Cattlex, Esq., in the chair.—The Secretars Y (Mr. Hewett) read the report, which was, on the whole, more favourable than on former occasions, more particularly from the circumstance, that after March, 1849, the directors would be relieved from their contract of taking the tenants' produce at fixed prices, which plan had caused a serious annual loss to the company. The cempany had also now free possession of their lands from the Crown, so that they would be able to embrace offers for disposing of their lands as opportunities occurred. The demand for the company's live stock had gradually increased, the sales during the year 1846 having produced 1742. 13s. 11d. The clip of wool for the year 1846 amounted to 81 bales, and netted at public auction 1003l. 14s. 10d. The township of Stanley was progressing; an extraordinary demand for labour in New South Wales, and for the mining operations of South Australia, had induced many of the free labourers to leave Van Diemen's Land. The want of labourers was great in the colony, and the price of produce consequently low.

SANITARY REFORM-SEWAGE.

SANITARY REFORM—SEWAGE.

TO THE EDITOR OF THE MINING JOURNAL.

SIB,—I am much obliged by your inserting my letter in your Journal of the 26th of Feb., and have read with much interest, in your subsequent publications, the correspondence of Mr. Radley and Mr. Wicksteed, the latter gentleman's further elucidating the scheme about which I addressed you, and inclosing his reports, as requested by Mr. Radley. Instead of indulging so frequently in Latin expressions, which I apprehend the public generally will scarcely understand, and, therefore, not be greatly benefited by, I fully expected from Mr. Radley's letter, which appeared in your Journal of the 4th inst., that that gentleman (as I presume that Mr. Wicksteed's reports were forwarded to him would have shown, as he engaged to do, the ineligibility, in a general sense, of the plan proposed to the London Sewage Company, and, ere this, have favoured the public with his own one-sided notion (for, as he states, "all schemes may, more or less, be that emanate from the brain or brains of one, or of a very limited sodality of mere wiseacres") of a method of sewage and drainage at once cheap, efficient, and comprehensive.

Of the cheapness, however, there appears to be some doubt for, notwithstanding the enticing assurance of 37 per cent. profits in prospective, it is not very clear whether the look, obtaining will be required for 1-4th or 1-20th of the metropolis in the first instance. With regard to his impugning the accuracy of the Times journal, respecting the sewers exhaling the mest malignant and poisonus effluvia, it is unnecessary for me to do more than refer your readers to the evidence received by the Sanitary Commission, to show that the facts fully confirm the statements in the Times, above referred to, and that the opinions of Mr. Radley on those matters are completely erroneous. But feeling, as I stated in my former letter, considerable interest in the question of an efficient drainage of the metropolis, I am somewhat disappointed at Mr. Radley's not produ

directors proposed to realise a profit of \$0,000. by the refuse of towns; and this was to be done without any return or compensation whatever to the rate-payers. One of the companies proposed the abrogation of two main lines of sewers, through a district where the proportion of sewage matter was only as 1 to \$00 of water, and, this produce was to be applied to land aircady surcharged with water. The machinery, too, proposed for effecting this object, was excessively expensive, as the estimated cost of one tunnel was 25,000%, whereas it appeared by the evidence of their own surveyor, that even this could be done at something less than 7000%. The shareholders, therefore, ought to felicitate themselves on the stoppage thus given to wasteful expenditure."

It certainly seems somewhat singular, that all the commissions of sewers hitherto appointed have not only allowed the sewage to run to waste in the river, to the gross pollution of it, and the manifest injury of those who are so unfortunate as to be compelled to live near to, and drink the water from it—but that the chief and, indeed, only object of the commissioners has apparently been to adopt the best and most effectual means which have been pointed out to them to have the sewers discharged there; now, however, that a company proposes to free the river from the filthy impurity, and otherwise greatly conduce to the health of the inhabitants, by completely and effectual means which have been pointed out to them to have the sewers discharged there; now, however, that a company proposes to free the river from the filthy impurity, and otherwise greatly conduce to the health of the inhabitants, by completely and effectual means which have been pointed out to them to have the sewers discharged there; now, however, that a commissioners attempt to throw obstacles in the way, by professing to have the pockets of the rate-payers deeply at heart. These professions would, perhaps, sound very well, were it not also stated, in the same resolutions, "That iths bill would have

my plan, will be, not only the riddance of a great nuisance, but also a great reduction in future sewer-rates; for, as my outfall for the sewers will be 29 ft. below the bottom of the present. Ranelagh sewer, and 20 ft. 6 in. below low-water mark at Woolvich, all nuture sewers may be made of less dimensions than those which have higherto been constructed, because a much greater fall will be secured; indeed, as a constant run will thus be secured, it is evident that such must be the case.

It is not, however, my present intention to discuss the question of rates or profits, but simply to consider the measure as a sanitary one; and, so that it be carried out, I am convinced the public will not care one straw whether it be effected by a company, or the Metropolitan Commissioners of Sewers; but I do not think it necessary to wait, perhaps for several years, until the general survey and levels have been completed, before commencing with a scheme which, for all our sake, cannot be too soon put in operation. As, however, from the account in the Builder, it may not appear very clear to those not acquainted with the different schemes, whether the proposed application of sewage water to land already surcharged with water, at an expense for one turnel of 26,000%, or something less than 7000%, as given in evidence by their own surveyors, forms part of the Great London Drainage Company; plan, or not, I hink it right to mention that the reports to the London Sewage Company (or, as it is now called, the Great London Drainage Company), as strongly expose the absurdity of attempting such an application of the sewage matter as Mr. Chadwick can possibly do; in fact, it would be utterly impossible so to apply it.—X. Z.: London, March 28.

Mining Correspondence.

ENGLISH MINES.

ANTIMONY AND SILVER-LEAD.—We are still sinking on the lode, and raising stones of solid antimony, from 300 to 400 lbs. weight each; the lode carries two regular walls, and underlays about 1½ ft. in a fm.; we have costeaned on the back of this lode for upwards of 50 fms., and find it a regular lode, and no deposit of ore; there is fine gossan on the backs, together with stones of antimony. We have also traced the silver-lead lode, which they are working at Wheal Sarah Mine, through our sett for one mile; and it is the opinion of practical miners, that this lode will prove productive.—March 27.

opinion of practical miners, that this lote will prove productive.—March 27.

BARRISTOWN.—We have had no change during the last week in the old mine. In the adit end east, the lode is producing about 15 cwts ore per fm.; the back of the level, behind the end, about 10 cwts. We shall commence to draw the water out of Nangle's, with barrels, on Monday next, which will enable us the more quickly to communicate the adit level with those workings.—March 24.

ings.—March 24.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 90 fm. level, east of the sump winze, is 3 ft. wide, and worth 30L per fm.; in this level west there has been no lode taken down; in the rise, in the back of the 90 fm. level east, the lode is 2 ft. wide, producing good saving work; the lode in the stopes, in the back of the 90 fm. level west, is worth 12L per fm. The lode in the 80 fm. level east is 2 ft. wide, producing good stones of ore. There has been no lode taken down in the 70 fm. level east; in this level west, on the south lode, the lode is without alteration. We have suspended the winze in the 47 fm. level west, on the south lode; and the men are put in the rise in the back of the 90 fm. level east. The lode in the 25 fm. level, east of the south engine-shaft, and in the adit level east, on this lode, remains without alteration.—March 29.

COATLITHE HILLS.—During this week, the men have been employed in

COATLITHE HILLS.—During this week, the men have been employed in sinking the winze from the bottom of the level, north of the Horse level; but, in consequence of the position of the vein having been altered a little on coming into the hard stratum, we have not been able to see much of it yet; but I hope to send you all particulars about it when I next write.

coming into the hard stratum, we have not been able to see much of it yet; but I hope to send you all particulars about it when I next write.

COOMBLAWN.—We are getting on as well as can be expected; the shaftmen have taken out penthouse, cased down the shaft, put in footway, shaft sollar, &c., and driven 9 ft. towards the lode in the 20 fm. level. We have some difficulties to contend with—too much water underground, and not a sufficient quantity at the surface, to enable us to work as we would wish—however, amidst these difficulties, we hope to be able to cut the lode before the dry weather entirely sets in. We are at present obliged to work in the bottom level by day, for there we have the surface water from the reservoirs at the Callington Mines, and I propose setting the shaft to sink on the main lode, so that our nightmen may be kept at work; this will be proving the lode as we go down, and, at the same time, we shall not be augmenting our monthly cost. The ground in the cross-cut, in the 20, is not hard for driving, but very wet and troublesome; there are branches of spar, containing mundic, blende, and spot of lead, crossing the end in different directions. The ground in the shaft, on the main lode, is favourable for sinking, price about 55s, per fm., the lode small, but very promising; and I expect, from present appearances, that we shall, but very weather 28.

CWM ERFIN.—The stopes west of the whim-shaft we have finished—

in search of it.—March 28.

CWM ERFIN.—The stopes west of the whim-shaft we have finished—that is, taken down the side; but the ore is still going up in the back, where there will be plenty of ground to take away, worth half a ton of ore per fm., at present. The lode looks very well to the east of whim-shaft; it is a strong lode, and likely to continue, worth one ton of ore per fm. The stope in the bottom of the level, west of engine-shaft, is also turning out good ore—worth 1 ton to the fm. The other work is going on just as last week. I shall very soon begin to wash some ore at the whim-shaft, to get it ready for the crusher.

I ton to the fm. The other work is going on just as last week. I shall very soon begin to wash some or at the whim-shaft, to get it ready for the crusher. DEAN PRIOR AND BUCKFASTLEIGH.—The cross-cut in the 30 fm, level is being driven 3 fms., and set to drive 3 fms. further south, to cut the lode, at 62, per fm.; I expect it will take three weeks to intersect the lode. We have not yet cut the north wall of the lode in the 20 fm. level, but have given directions to do so, by gaining north as we proceed west; probably, in the course of next week, the size and quality of the lode can be reported on more satisfactorily than at present. The pitch in the back of the 20 fm. level, is set to four men, at 9s. in 12, an increase of 3s. in 12, compared with the last tribute. There is also a pitch set in the back of the 10 fm. level, over the shoot of ore in the 20, at 10s. in 12. This shoot of ore appears to be continuous, and lengthening in depth, which will be proved, as fast as circumstances will admit of, immediately a short piece of ground in the back is stoped away, to allow the tributers to throw their work through a place a little to the west of their workings, we shall be at liberty to sink under the level, whereby we may form a more correct opinion as regards the value of the lode, and the best method to be adopted to extract the ore with as limited expense as possible. There will be a good parcel of copper ore ready to sample in about three weeks; and, from present appearances, more to follow in succession.—March 25.—I have to inform you, that Saturday last being the monthly setting day, the bargains and pitches were set as follows:—The cross-cut in the 30 fm. level—price 51, per fm.; although we have commenced cross-cutting through the lode to the north wall, as I hinted in my last report, to ascertain the nature and size of the lode, we have set two pitches—one in the back of the 10 fm. level, at 10s. in 12; the other in the back of the 20 fm. level, at 9s. in 12.—the latter being 3s. in 12 less than the form

sampling.—March 29.

DEVON AND COURTENAY CONSOLS.—The lode in the 40 fm. level, driving east of cross-course, on the gossan lode, is 20 in. wide, producing good stones of ore, mixed with mundic, spar, and peach—saving work; the end-driving east, in the same level, on the south lode, is 6 in. wide, composed of mundic, spar, and spots of ore; in driving west, in the 40 fm. level, on the south lode, we have intersected the cross-course seen in the level above, and driven north, to cut the gossan lode west of the gross-course, which, in the 30 fm. level, was heaved south about 4 fms. We have driven north about 6 ft., and, from the appearance of the ground, we are very near the lode; this will be proved in a day or two. The ground in the engine-shaft continues favourable for sinking.—March 28.

DEAKE WALLS.—At Brenton's engine-shaft, still hard ground, and rich

EAST CROWNDALE.—The sumpmen have been engaged cutting plat in the 58 fm. level, which will be completed by the end of next week. The 47 fm. level, driven on the course of the north lede, is still poor; the lode is about 1 ft. wide, composed of spar, killas, mundic, and spots of ore. The rise and stopes, in the back of the 47 fm. level west, are still improving; the lode is, on an average, 2 ft. wide, composed of spar, capel, peach, and copper ore, of a good quality—we have risen about 5 tons of ore from this place during the past week; our engine and pit-work all in good order.—March 27.

week; our engine and pit-work all in good order.—March 27.

GREAT MICHELL CONSOLS.—The lode in the sump winze is from 7 to 8 ft. wide; 2 ft. on the north part continues to produce some good saving work, and is, in its general character throughout, exceedingly promising; we have sunk in the last 8 ft., and broken about 18 toos of ore, worth, on an avarage, about 5t per ton. The 35 fm, level, west of the sump winze, the part of the lode being carried 4 ft., contains mundic, capel, spar, and ore, intermixed throughout. We have at surface, including tributers ors, about 25 tons.

HEIGNSTON DOWN CONSOLS.—The water is in fork, and we have resumed ainking Barley's engine-shaft, in which the lode is 4 ft. wide, producing good stones of tim ores. The ground in Buddle's adit is favourable for driving.

LAMHEROOF. WHEAL MARIA—Lest week I put two men to open on

LAMHEROOE WHEAL MARIA.—Last week I put two men to open on the K lode 18 fins. from surface, where we first ent it in the shaft, and find the lode improving every fact we open on its course, and will write you more fully the latter part of this week; by that time the lode will be more settled. You will get my report on Thursday—meanwhile, I shall open two or three at the 18; it is looking promising for something of great value—March 25.——We

e commenced driving upon the K lode in the 18 fm. level, and find it imres eastward. We have this day drawn some of the stuff to surface; it is
work for stampa. In the 30 we are driving east and west upon the same
; but, being so near the little cross-course, it is in a disordered state, and
not expect any change until we get a little further off—it is not, however,
out ore.—March 29.

I do not expect any change until we get a little further off—it is not, however, without ore.—March 29.

LOSTWITHEL CONSOLS.—The engine-shaft is now laid down to the 30 fm. level, by which we purpose to cross-cut to the Melham lode (No. 4), and three lodes within 20 fms. of the Melham lode, one of them being the caunter; we hope to set the driving of the cross-cut on next pay-day, 25th inst. We have a floor of intensely hard spar now in the bottom of the shalt; but, as it dips n. fithward, we shall escape it in the cross-cut, which is to go south. We hope to see the Melham lode in little more than two months. All other matters at the mine are as usual. The engine works well; the water is not great in quantity, nor do we think that it will be so. The operations are proceeding as rapidly and economically as possible.—March 18.

KIRKCUDBRIGHTSHIRE.—The lode in the 50; end west is 6 ft. wide with spots of lend—set to-day to six men at 31. 10s, per fm. The lode in the 40 end west is 3 ft. wide, producing one-third of a ton per fm.—not set; the lode in the end, on the caunter east, in this level, produces about half a ton of lead per fm.—set to two men at 31, per fm. The lode in Keith's shaft, is 4 ft. wide, producing stones of lead, and ground much the same as for some time past—refused at 51. 15s. per fm. The lode in the 30 end east is still in confused ground—set to-day to two men at 21. 15s. per fm.; the lode in the 30 end, west of Keith's shaft, is about 35 to 4 ft. wide, producing about three-quarters of a ton of lead per fathorn—set to six men at 41. 4s. per fm. From the setting list, you will further observe, that six pitches are set to 16 men at tribute, varying from 21. 5s. to 42. per ton. We have, this day, shipped 42 tons of lead for the market, per the vessel, Caledonia; and have 13 tons left ready dressed towards another shipment.—March 25.

dressed towards another shipment.—March 25.

MENDIP HILLS.—The ground in the 38 fm. level, south of the shaft, is now become a little more favourable for driving than it has been of late; and the apper rance of the lode continues much the same as usual, composed of spar, flookan, iron, and limestone, producing at times small sprige of lead near the footwall side. In the slag department, we are is still making and fixing the necessary machines, &c., for returning a greater quantity of slag for the furnaces, which is being done with all possible dispatch; the masons are now engaged in fixing the small iron furnace for resmelting the lead into pigs, which will, I hope, be completed about Wednesday next. In the slag ground, the beds of slag through which we are now extending the open cutting, continues to look tolerably well, being about II ft. thick.—March 27.

PENNANT.—The ground in Oliver's shaft looks exceedingly well; all of it is intermixed with fine spar and barytes, making in droppers into No. 17 lode; I think we had better sink another 4 ft., or a fathom, so as to have enough room, or fork, for the water, before we cut a cross-course into No. 17 lode; then I think that I can keep the water down, and raise the rubbish with our horse-power, which will save us 7.1 fes. per month.

POLSAITH CONSOLS.—We have cut the lode at Tinner's Hill—on cut-

horse-power, which will save us 71. 16s. per month.

POLSAITH CONSOLS.—We have cut the lode at Tinner's Hill—on cutting which, the water came on so fast, as to prevent continuing to work; the
lode, when cut, had a most promising appearance, consisting of gossan, copper,
and lead; although we do not expect any profit from the copper, it has been
found in that neighbourhood, when it has been met with in the lode, to be the
harbinger of a good course of lead. I am writing out notices to receive tenders for the erection of the engine-house, which I hope to have up in six
weeks from this date. I am myself, as well as every experienced miner who
has viewed the mine, exceedingly sangulne as to its proving a first-rate mine,
and that, too, at no great distance of time, or at a great cost. I should have
been exceedingly glad, if we could have continued working on the lode without
intermission, as we were daily expecting to have a quantity of lead in the
ends—the Trebetherick side—the north end showing a good branch, when we
were driven by the water; but, finding the draining of water by horses would
be very expensive, I have directed the discontinuance of it, and their attention
to the most expeditious mode of getting the engine to work, which will lessen
the cost of drawing the water nearly one-half, and enable us to work constantly.—March 22.

SOUTH DOLCOATH,—At your request, we have been underground in

the cost of drawing the water nearly one-half, and enable us to work constantly.—March 22.

SOUTH DOLCOATH.—At your request, we have been underground in South Dolcoath and Wheal Providence Mines. In the former mine (South Dolcoath) the engine-shaft has been sunk nearly all the way from surface, on a lode varying from 2 to 5 ft. wide, underlaying about 2 ft. in a fm; the shaft is now 7 fms. under the 40 fm. level; the lode in the shaft is now 5 ft. wide, and has altered its direction, being much more downright; as there is some alteration in the lode, we would recommend the sinking this lift to the 50 fm. level. The 40 fm. level is driven east of engine-shaft 5 fms; in this end there is a large kindly lode, 3 ft. wide, composed of gossan and soft spar; this we would recommend driving, as there is a cross-course 50 or 60 fms. east—the ground is favourable for driving. The 40 fm. level is extended about 12 fms. west of engine-shaft; in this end the lode is small, and the ground hard and unproductive. The 20 fm level is driven east of engine-shaft 25 fms. on a large kindly lode, with the exception of the last 2 fms, where the lode is small, and split into two branches. The 20 fm level is extended west of engine-shaft 30 fms; in this end the lode is 2 ft. wide—ground/hard behind the present end, say 8 to 10 fms.; there is much water coming from the back, and at this point there is a large kindly lode, and the 12 fm. level being only driven 8 fms. west of engine-shaft, in which there is strong indications of copper, we would recommend the driving of this (the 12 fm. level) end, and rising at the given point in the 20 fathom level, west of engine-shaft.—Wheal Providence.—In this mine we could see none of the ends, the bottom levels not being cleared from the old working. In the 12 fm. level, east of engine-shaft, the tributers have discovered a deposit of rich grey ores, and choked the level; this lode being supposed to be a continuation of the Druid lode in the Carn Brea Mines, abould recommend the laying open ground

SOUTH WHEAL TRELAWNY.—We are getting on with sinking the name-shaft in a very satisfactory manner, although the ground is somethat harder; it is now 28 fms. below the adit level; the quantity of water just as usual—we cannot speak of any increase.—March 25.

is just as usual—we cannot speak of any increase.—March 25.

TAMAR SILVER-LEAD.—In the 175 end, there has been no lode taken down since last report; but the discovered wall is presenting a favourable appearance. In the 160 end, the lode is 1 ft. wide, good stamp work. In the 145 end the lode is 2 ft. wide, 1ft. of which is work of good quality. In the 185 end the lode is 3 ft. wide, composed of can, capel, and ore, 2 ft. of which is saving work. At the north mine, in the 70 end, the lode is 3 ft. wide, yielding work of a promising appearance, and rich in quality. In the 50 fm. level the lode is 2 ft. wide, composed of capel and can, with good stones of ore. In the tribute department, our prospects are just the same as for some time past. We hope to sample, on Saturday, the 1st April, 85 tons of rich silver-lead ores.—March 27.

We hope to sample, on Saturday, the 1st April, 85 tons of rich silver-lead ores.—March 27.

TIN VALE.—I have to inform you, that we have waited for Capt. Nance, but he has not come. I have inquired of the men, if they delivered their message on Saturday. They told me they saw him, but he did not give a decisive answer. Probably he may be here to-morrow. I am happy to inform you, the work is going on well. John Hodge has commenced washing livvine's work, and it is equal, and, I think, superior, to the other. William Northey has cut the lode in his pitch, and has fixed the tackle and commenced sinking. I saw some tin there to-day. The tin-dresser is preparing the first batch of tin, and the stamps will be kept at it smart, night and day, which will soon enable us to bring to market. The tribute pitches are just the same as when you left. The materials you wrote the order for are brought home and secured. I have nothing more to say. If Captain Nance comes to-morrow we will forward his report the first opportanity.—March 27. In consequence of your having this letter from Mr. Mansell when you left, your son did not go to post on Sunday, and, thinking to have Capt. Nance's report to carry early on Thesday morning, did not receive the letters with the cash until yesterday. However, it is all right. John went to bank and received the cash. I have to say, that Capt. Nance has not been here; consequently, I cannout sond his report. However, our worthy proprietors will only have to wait a short time and Tin Vale will report for herself. I infimated to you in my last of Northey and partner's pitch. I beg to say, they raised some fine 'specimens of tim from their lode, or branch, yesterday, only 9 ft. from the surface. We are getting on with the floor-work with all possible speed in your absence. I hope to use all diligence to get tim for the market.—March 28.

TRELEIGH CONSOLS.—The 120 cross-cut, north of Christoe's, is to cut

to get tin for the market.—March 28.

TRELEIGH CONSOLS.—The 120 cross-cut, north of Christoe's, is to cut the lode west of the slide. In the 110, east of ditto, the lode is about 2 ft. wide, with stones of ore only. The 100 south, east of ditto, is driving on the slide, intended to cut the lode we have in the 110 fm. level. Garden's shaft, below the 100, is sinking in the country—the lode is 2½ ft. north of the perpendicular; in the 100, east of ditto, the lode is 2½ ft. wide, but lift ore, rather more kindly; in the 100, west of ditto, the lode is 2½ ft. wide, more promising, and producing good stones of ore. In the 90, west of ditto, the lode is 20 in. wide, with good stones of ore, not to value. In the 70, west of ditto, the lode is 20 in. wide, with good stones of ore, not to value. In the 70, west of ditto, the lode is 20 in, wide, more promising, with stones of ore. In the 60, west of ditto, the lode is 2½ ft. wide, worth 20 per fm.; in the rise, above the 60, the lode is 2½ ft. wide, rather disordered by a slide at present, with stones of ore; in the adit east, on Wheal Parent lode, the lode is 5 ft. wide, worth 31 per fm.—this split into two parts, with killas between; the adit, north of engine-shaft, is to cut Wheal Orphan lode. The low tribute pitches are much as usual. Time will not permit me to send you the distances of the various lovels to-day, but will send them on Monday.—March 25.

WEST WHEAL JEWEL.—In the 57 fm. level, west of Williams's cross-comes, on Wheal Jewel lode, the lode is 2 ft. wide, worth 151 per fm. In the

rise, in the back of the 70 fm. level, west of Williams's cross-course, on the same lode, the lode is worth 4l. per fm. In the deep adit, west of Hodger's cross-course, on the same lode, the lode not taken down in the past week. In the 90 cross-cut, south frem Tolcarne tin lode, the ground is a little more favourable for-driving; in the deep adit, west of Quarry shaft, on Tolcarne tin lode, the lode not taken down in the past week. In the stopes, in the back of the 12 fm. level, west of Quarry shaft, on the same lode, the lode is 4 ft. wide, worth 30l. per fm. In the shallow adit, west of Quarry shaft, on the same lode, the lode is 2 ft. wide, unproductive.—March 27.

WHEAL TRELAWNY.—We are now cutting into the carely of the lode.

lode, the lode is 2 ft. wide, unproductive.—March 27.

WHEAL TRELAWNY.—We are now cutting into the capels of the lode in the 62 fm. level, at Phillips's shaft, where there is quantity of water issuing out of capel, which makes it very troublesome to cut through; I hope to see the lode in two or three days. The lode in the 52 fm. level north is composed of can, mundic, and lead, worth 82, per fm.; the south end, in this level, is at present worth 72, per fm.; the stopes, in the back of this level, are producing a fair quantity of ore, but are rather hard. The lode in the 42 fm. level north is 2 ft. wide, composed of spar, can, and lead, worth 82, per fm.; the stopes in the back of this level, are very similar to my last report. The lode in the 32 fm. level north is without any material alteration; the ground is still good for driving. Trelawny's engine-shaft is progressing satisfactorily. The 22 cross-cut east is much as last reported. At Vivian's shaft, the 30 fm. level is still good for driving, and opening ground that will pay well for stoping.

FOREIGN MINES.

ANGLO-MEXICAN MINES.—March 27.—Owing to a pressure of business, and other cfreumstances, Mr. Brough had not been able to get ready the usual documents to sen by this month's mail, but they will come forward by the March packet. The followin is the statement of the Ascuncion Mine, for the five weeks, ending Jan. 29.

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Dec. 31	** ** ** ** **	8 658	6 1	8	878	3	0		-		219	4	7
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29	** **** ** **	720	2 6	** ** **	698	5	0	*****	_	20-20-20	371	0	0
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me, as it results from the works I have ordered to be carried into effect; and I think that the next packet will enable me to communicate better tidings.

BOLANOS MINES.—Received 27th March, per Dee, dated February 3:—

EL BOTE.—Since my last communication to you, dated the 6th ult., I have the honour to inform you, that the sluk in San Genaro shalt has gone on exceedingly well, having sunk 114 varsa during the month, but the walls are not sufficiently strong to stand without timbering; therefore, we are now engaged in cutting bearer holes at the bottom of the shaft, and making preparations to timber up the broken or loose ground. In the Victoria cross-cut we are progressing as fast as the nature of the ground will allow us; and, on the 29th ull., we cut considerably more water, but nothing more than the two malacates can keep under—nor do I think it will impede the sinking in the shaft. In the cross-cut of San Jose po aiteration has take place during the month. In the cross-cut De la Companio but little has been done, having cut, on the 11th ult., a small branch, about 6 in. thick, of view stone, which, in all probability, is connected with the veln, as the water has since considerably lessened in the planes, but which let down such a quantity of water, that, on the following day, we were completely driven out of the cross-cut; or were we able to regain the cross-cut, and work the pumps in the planes, although we had four malacates at work for several days in succession, as fast as the horses could run; it was, therefore, deemed necessary, on the 29th, to stop the pumps in the planes, and to make an effort, with the four malacates, to regain the cross-cut, which we succeeded in doing on the 1st inst., and has since been regularly at work in it. In consequence of our being compelled to stop the planes for a short time, on account of the water, it will, necessarily, make the extraction of carga small; and to make our expenses at the mine as light as possible, it has been deemed advisable to discontinue some of t

bunnel of ore going down in these bottoms. The rises-cut of Esperanzia we are still driving through the vein, but without fruits. The rise in the adit of Valenciana has been communicated with the old Cata, and the adit again recommenced driving.

Extract of a Letter, dated 4th February.

Extract of a Letter, dated 4th February.

The packet that left England on the 1st of December has not yet made its appearance—consequently, I am deprived of your letters. On the 11th ult, in the Companio crosscut, we came across a "relex," from which sush a body of water issued, that, on the following day, we were driven completely from the cross-cut. It was immediately seen that the water lessoned in the planes, and, for a short time, we were in hopes that it would drain them completely—but we soon saw that this was not the case. On the 1st inst, the water was low enough to allow the workmen to go down and continue driving. There is no doubt that this stream of water will soon dessen, and this will enable us to extract a few orcs, so as to keep the hacienda at work. I consider the "relex" to be the same that was cut in the Constancia level, just before coming on the Providencia—viz. 14 varsa before the large vein. I have no doubt, but that, in two or three weeks, we shall come across the vein, and the water can keep the water down, and be able to extract cargas. Should I succeed in keeping the water down, and be able to extract cargas. Should I succeed in keeping the water down, and be able to continue extracting ores from the planes, I am convinced that an extraction of 1500 cargas well be more than sufficient to carry on all the works, both underground and on the surface, and even leave a profit. Every point in the planes is looking well; and if no change takes place, an extraction of 1500 cargas weekly could be made with ease, if half a whim can be taken away from the drainage. In the east end of Guadalupe the pintas of verdion continue, and lately those of quartz are to be seen, but very few assays come up as high as 5 mar

LORTTO MINE.—San Ignacio is looking rather promising; the cres are narrow, but rery rich, and eight or ten paradas have been working there latterly. The driving west continues—ore of the same quality and width; and our experience of the same vein, in san Nicolas and San Clementl, would encourage the hope, that it may lead us to a bunch of ore, similar to those which yielded so abundantly in those mines. This mine must be nearly naving its cost.

the 30th January, 1848. [Letters coming by another conveyance.] B7 6 12 0

NATIONAL BRAZILIAN MINES.—Cocaes, Jan. 3.—We have much satisfaction in informing you, that a decided improvement has taken place in the appearance of the ground in the eastern part of our workings: one sample from the voin, bruised down, produced 5 ofts. of gold. In fact, we can almost promise, that the returns will shortly present a more cheering quotation.

Produce from Cocaes

Miss. 4 2 4 62

Ditto from Culaba 2 0 1 57

PACHUCA MINES.—Feb. 12.—The 81 vara cross-cut, south of San Guillermo shaft, has been driven 64 varas, without having met the south wall of the lode. Throughou this distance, we have found stones of axogue ore, but not in sufficient quantity to pay for working. If, on reaching the south wall, no ores are discovered that will pay for working.

working. If, on reaching the south wall, no ores are discovered that will pay for writing, I propose to suspend operations, until I receive further instructions. During the past month, 480 quintals of ore were reduced, which produced 120 marcs of sliver.

REAL DEL MONTE MINES.—(By this packet the directors are informed of the receipt of their despatches of the 24th of Nov. last, in which they notify their acceptance of the resignation of their commissioner, Mr. W. Rule, and the appointment, provisionally, of Messrs. Brenchley and Woodfield, from the former of whom the present despatches have been received;—

have been received.]—

Mineral dei Monie, Feb. 12.—In reply to the letter, dated 24th Nov., I would beg to say, that I will take all possible care that the company's interests do not suffer, while, with Mr. Woodfield, I remain in exercise of the temporary powers to be delegated to use by Mr. Rule. By the account for December working is a sad illustration of the uncertainty of our estimates. The excess arose from a charge of \$7000 to San Autonio Fean, for machinery from England; and the amount of stores was increased by nearly \$9000, for sundry goods by the same vessel. There has been a great difficulty, within the last three or four mouths, in obtaining a supply of fuel for the engines and haciondas—so that it wasfound necessary togenploy the for evaggons in this service, during parts of the months of becember and January (while the transport waggons were on the road to and from Vera Cruz), in order to prevent the stoppage of the drainage. This will have a serious effect on the current month's produce—the grinding at Regis having been suspended during some weeks, for want of ores. We are piaced hore in a very disagreeable position, by the continuance of the war. Every possible step has, however, been taken for the protection of the company's property, by communications with car Minister, and with the Mexican and American authorities.

Mines Report.—The driving of the cross-cut south, 11 varus cast of San Pablo winze, at

the Santa Terresa level, was suspended on the 15th of last month, in order to drive case on the Blacaina; under the silde, the vein is two varas wide, with bunches of asegue and smellting ore. The above-mentioned workings, and the stopes west from San Pablo wince, below the Santiage, or 191 vara level, have been hindered since the 16th of last month, in consequence of breaking the piston-rod of Dolores engine, which was idle 69 hours, while the repairs were in hand; we expect, however, to resume the workings at 8m Pablo in the course of a day or two. In Santa Ynes there are savan pitches working over the add level north and south from rise, 142/wara north of San Vicente shaft; the resis is Hrom 4 to 5 varas wide; the above-mentioned labores are producing 320 cargus of azogue ore per week, assaying 12½ mes. per menton.

Rosario.—On the 5th inst. we commenced sinking the San Enrique winze, below the San Enrique level, on the south part; 72 varas east from the sinft, the vein is 1½ vara wide, with bunches of azogue ore, and has a promising appearance. There has been nothing done in the bottom of San Peiro shaft, or in the San Enrique level, since my report of last month, owing to the sbandance of water issuing from the latter. I hope, however, in the course of a week more, we shall be able to resume operations in these places, as the water has gone Hows on the Santa Brigida vein 13 varas below the Aviadero, and a slight decrease takes a place -owing, I aspose, to the water having been forked at Dolores to the Santa Andres level, in the perpendicular assaft, which, for some time past, has been full to within 16 or 17 varas to the valued relatively the case, since the Santa Brigida has been ent in the San Enrique, that the water, after rising to a certain point in Dolores, passes from that to this place in less than 24 hours. The stopes south of San Refacel, and north of La Cruz wines, between the San Yidfro and the Aviadero levels, are producing from 20 to 30 cargas of good azogue, and occasionally a few bags of sm

now communicated to the end diving muth both solutions and casme winze, over the San Patriclo lovel, continues to give about 100 cargas of azogue per week, assaying from 10 to 18 marcs per monton.

El Sacromento.—In the San Ysidro, or 106 vara level, driving south from the shaft, the lode is about 4 feet wide, yielding azogue ore, of a good quality, and ground favourable for driving. The stope over the San Miguel, or 48 vara level, 168 varas south of the shaft, has a kindly appearance—yielding about 30 cargas of azogue per week, nad a little good smellting ore. The workings north of Santa Barbara winze, above and below the 40 vara level, continue to give 70 or 30 cargas of azogue or per week, nad a little good smellting ore. The workings north of Santa Barbara winze, above and below the 40 vara level, continue to give 70 or 30 cargas of azogue or per week, having an average level of 10 marcs per monton. The workings over and under the San Fellipe, or 25 vara level, 240 varas north of the shaft, is reduce hash, a significant of the shaft, is rather hard; the lode is about a quarter of a vara wide, having a little good azogue ore: this end, although hard, is progressing favourably; the three Englishmen, with six Mexicans, drive about 2 varas per week; in this place there has been a large stream of water cut in the past week, which has nearly drained the workings below the Esperanza level, west of the shaft, and has increased the water on the winze from 8 to 12 strokes per minute. This level, driving cast from shaft, is very hard—lode about quarter of a vara wide, producing a little good smalling and azogue ore. Dolores winze, sinking below the Esperanza level, 31 varas week of Moran shaft, has a promising appearance; the lode is about 2 ft. wide, producing a little good smalling and azogue ore. Of the shaft of the shaft is a vary wide, producing a little good smalling and azogue ore, of a tolerably good quality. Los Maravillos workings, where bereiteros, on partido, are euployed, has a promising appearance; in th

Increase the raising to the former quantity.

UNITED MEXICAN MINES.—Guanaxwato, Feb. 14.—Mine of Rayas.—Since my last, no change of importance has taken place in the mine. Very little pragress has been made in reducing the water, which has, this season, been much higher than usual. The point of Santa Toribio still looks promising, and has increased its produce. By the annexed statement, you will observe an increase in the picked owas; this has been caused principally by a quantity of San Cayetano ores of low ley (which were laid aside as not worth beneficiating, when the price of Maquila was \$30, and quicksilver \$190 per quintal), being now brought forward, and sent to the hacienda—the present prices allowing of their being reduced, with some small advantage. This has also enabled me to employ seven more arrastres in Barrera on Rayas ores; the number so employed has been increased this week from 35 to 40. Three arrastress are also engaged upon ores of a still lower quality, which, however, appear to contain gold enough to be worth grinding; and, if after having deposited their gold, the lamas should prove, upon being assayed, to be not worth incurring any further expense upon, they will then be thrown away.

5 weeks ending Picked Ores. Haff Sates. Outlay.

Dec. 25 ... Cgs. 1716 ... 85739 6 0 ... 823,551 7 ° 3

Jan. 29 ... 2780 ... 8648 3 4 ... 266,265 5 1

Cgs. 1064 \$ 108 5 4 82713 5 6

Quicksilver.—The only purchase I have made of this article, since I last wrote you, is of Remidiances.—No safe opportunity has yet occurred to nces.—No safe opportunity has yet occurred to make the directors a remit-WILLIAM HEATH.

Report on the State of the Workings of the Mine of Rayas. Peb. 2-La Purisima continues to yield a small quantity of ore, on the sa

Report on the State of the Workings of the Mine of Rayas.

Feb. 2— La Purisima continues to yield a small quantity of ore, on the same system as hitherto pursued.

San Pio and San Antonio.—The dry wall in San Pio has been raised sufficiently to allow of the ores in the upper part of the lode being extracted, which materially assist in the produce from this division of the mine. In San Antonio, some bunches of fair ore are met with occasionally. The principal extraction, however, takes place from the southeast side of the old road, where every security has apparently been given to the upper part of the lode; the quality of these ores is good. Seven pairs of barmen are employed by day, and an equal sumber by night.

San Cayetano.—The ores in the roof of San Pablo having become rather scarce, and being at the same time of inferior quality, the barmen have been removed to Santo Toriblo.

Santa Cecilia.—Since the last report, 4-89 varus have been driven in this cross-cut. The formation, in the most advanced point of the working, is assuming the general features of the upper division of the lode.

San Mayoul.—The work of communication, between the second cross-cut and the entrance to the level of Santo Toriblo, has been advanced 9 varus during the last month. The ground driven through has proved excessively hard in some places, and unfavourable for the operation of the shots, owing to its brittleness; on the side of the cross-cut, a favourable change was observed from days ago. The system of working the point mentioned in the last report is still continued, and the same number of hands employed.

Santo Toribio.—Buring the month of January, there has done.

Santo Toribio, and the same number of hands employed.

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Santo Toribio, and the same number of hands employed.

Santo Toribio, and the same hands of cost parts that have have have been santo to Earwara fo There are now employed on the drainage six whims by day, and three by night. The prices of most articles of consemption are rising, and of some there is a great scarcity. No miners bars are to be set with.

G. R. GEENNER.

PLYMOUTH WHEAL YEOLAND EAST .- The shaft is being continued to open the adit. WHEAL ANDERSON.—The lode in the 70 east and west is now in a cross 17 fms. of good tim. Ground has been laid open in this level.

EAST CROWNDALE.—The shaft is nearly down to the 58, when it is intended to cut the lode which has not been seen for 28 fms. This is spirited and good mining. WHEAT FRANCO.—The lode in the 47 east of the cross-coarse is much in abcoming more regular.

Wareal Asis.—The lode is now fall 5 ft. wide, 3½ ft. being raundle, and during the last week mixed with a little yellow ere; there is also still black exide of copper in the gossan in the lode. It is said that there is a good fode in the easiern part of Wheal Friendship Mine, not ar from the boundary of East Wheal Friendship.

Inon One.—We hear that large quantities of this ere are still being exported from Cornwall.

X ANTIMONY AND SILVER-LEAD MINES OF ST. KEW.

ANTIMONY AND SILVER-LEAD MINES OF ST. KEW.

Sir.—I lately observed in your valuable Journal, the report of the lectures on minerals, delivered by Mr. Hunt, at the London Institution; and in which he speaks of antimony ore being found in the neighbourhood of Liskeard. This article is found in great abundance in the island of Borneo, and from thence taken to Singapore, and shipped for England, at an expense of about 41, to 41 lbs. freight per ton. It is astonishing, the industry and research of Englishmen should drive them to foreign shores, for the purpose of obtaining an article which can be found in great abundance, and at much less cost, in this country. A short time since, I observed a prespectus of an intended company, who were to work the antimony and silver-lead mines at St. Kew. It is well known, that this part of the country is celebrated for producing antimony ore, equal, in every respect, to the antimony ores found abroad; and yet, up to the present time, this branch of our minerals seems to be totally neglected. The whole district consists chiefly of antimony and silver-lead ores. Some years since, the Treburget Mine, in the adjoining parish to St. Kew, was worked for silver-lead to a considerable extent; and a mineral, which at that time was suspless. By mere chance, this was assayed, and found to contain a large quantity of silver, and from which, eventually, profits to the amount of upwards of 30,0001 were returned. There are several young mines in the same neighbourhood now at work. In the parish of St. Kew, and adjoining the Antimony and Silver-Lead Mines, is Wheal Sarah Mine, lately taken up by a party who are about to creet an engine. From the present appearances on the surface, and the indications at a greater depth, there is no question of large returns of ore being procured; and the like results may be expected, on the lode being worked, in the Antimony and Silver-Lead Set Adjoining. A little further, is Pengenna Mine, worked by Messrs. Gill and Rundle, of Tavistock; this mine has returned

10

Camerford, March 39.

BWLCH CONSOLIDATED MINES.

Str.—We observe a paragraph in your Journal of this date, which we beg to inform you, if it refers to the Bwlch Consolidated Mines, that the whole statement is incorrect. Should we be right in our conjectures, please to give this equal publicity in the Journal.

Three Kings' Court, Lombard-street, March 25.

Three Kings' Court, Lombard-street, March 25.

[We certainly understood from parties connected with the Bwlch Consolidated Mines (which were the mines referred to), that a meeting had taken place on the day named, and that a call of 50s. per share was made; but on our making the inquiry since of Mr. Tredinnick, we have been assured by that gentleman that no such call vas made; yet he admits that a meeting was held, and in making up the debtor and creditor account of the mines, that shareholders have been debited with the amount named—therefore, upon his assurance, we will call it a debt of 50s. per share, and not a call; still we have not seen the resolution or minutes of the meeting.]

X DEVON GREAT CONSOLS MINE.

SIR,- According to promise, Messrs. Rule and Opie, together with myself-

SIR,—According to promise, Messrs. Rule and Opie, together with myself, have carefully examined and inspected the Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria Mines, and beg to furnish you with the following report thereon: The situation of these mines being so well known, we abstain from any remarks on that head, and proceed at once in the order in which the inspection was made.

Wheal Maria.—The engine-shaft is sunk 9 fms. below the 60 fm. level, prependicular; at present on a cross-course, with the ground favourable, and it is intended to sink the shaft to the 80 fm. level, previous to a cross-cnt being driven to the lode; should it prove productive in this level, another cross-cut will then, of course, be driven in the 70 fm. level. In the 60 fm. level, driving west from Morris's shaft, the lode is 6 ft. wide, with good stones of ore, but not rich; this level has reached the first main cross-course, but the lode has not been opened on to the west of it. The 50 fm. level is communicated from Guard's shaft to Morris's. In the 28 fm. level, where the lode is 28 ft. wide, a cross-cut has been driven south about 3 fms. in which three branches have been discovered—the first is 6 in. wide, good work; the second 8 in. wide, ditto; the third is 1 ft. wide, and will produce 2½ tons per fm., worth 7t. per ton. In our opinion, the adventurers would be well remunerated by continuing that cross-cut south to a considerable extent, and also another north, the lode being of such an immense size at certain parts, and we doubt not but there are several parallel lodes to be intersected. We consider that six men should be driving west on the south part of this lode, where it is split into branches, as there cannot be a doubt but that these branches will form a junction in going west, in which case it may be naturally expected that such large deposits may be met with as will equal anything hitherto seen in this mine, there being a great distance of unwrought west from this point.

Wheat Fanny

distance of unwrought west from this point.

WHEAT FANNY.—Here, to our great surprise, we found tributers working within a very few fathoms of the surface, on a splendid course of ore. In the 25 fm. level, driving west, there is a course of ore in the end, 15 feet wide, producing about 28 tons per fim, worth 61 per ton, giving nearly 1701 per fm., and we consider this calculation sufficiently low. In the 25 fm. level west, the end is worth 251, per fathom, and the back is set on tribute at 2s. in 11. There are about 40 fms. to be driven west to get under the great course of ore in the level above; and, from the indications, we think there is little reason to fear but that this level will be equally as productive. The lode in the bottom of the shaft, in this part of the mine, is 5 ft. wide, worth about 121, per fm., and very kindly. At the eastern shaft here, the lode is 8 ft. wide, worth about 191, per fm. In the 45 fm. level east the lode is 5 ft. wide, worth 101, per fm. In the 55 fm. level east the lode is 6 ft. wide, worth 102, per fm.; west at ditto it is 4 ft wide, worth 92, per fm.

Shim. level east the lode is 6 ft. wide, worth 10l. per fm.; west at ditto it is 4 ft wide, worth 9l. per fm.

Whyal Anna Maria.—In the 30 fm. level here the lode is split, altogether it is about 4 ft. wide, but not rich. In the 40 fm. level west the lode is again split similar to that noticed in the level above, and about the same size, unproductive at present; in this level a fine ocurse of ore has been driven through for 40 fms. In length; in this level east the lode is 8 ft. wide, but not rich. In the bottom of the engine-shaft the lode is 8 ft. wide, and worth about 27l per fm. the bottom of the engine-shaft the lode is 8 ft. wide, and worth about 27l per fm. Wheal Joshah.—In the 60 fm. level, east of Hitchens' shaft, the lode in the end is 4 ft. wide, worth 32l. per fm.; in this level a course of ore has been driven through for 60 fms. in length, it is 9 ft. wide, and very rich. From this source ore is available whenever the samplings may require it, and, as must be obvious, will yield an abundant supply. The lode in the bottom of the engine-shaft, and under the above level, is now 8 ft. wide, and the north wall not yet reached; this shaft is suuk 12 ft. long, and from the nearest calculation, we should say it was worth 250l. per fim. Richards's shaft, now being sunk below the 70 fm. level, the lode is 5 ft. wide, and worth 25l. per fathom, indicative of speedy improvement. Truly it may be said that this is a great and good mine.

It has been asserted that these mines have been unfairly worked undergroand; whatever may have been the case heretofore we know not, but we condiently assert that such is not the case at present, the tributers being kept at a most legitimate distance behind the ends. It has been further stated, that the pitwork, &c., is generally very defective; but from a minute examination we can only come to the conclusion, that such statements are utterly groundless—and we are perfectly satisfied that no unprejudiced person would think otherwise.

Capt. Richards informed us, that it was inte

may probably prove equally as productive as the main lode.

On taking a glance over this extensive mining property, we are of opinion that the number of underground agents a very insufficient for the work that must necessarily be performed. We would beg to suggest that two additional underground agents should be appointed, and we feel assured that this arrangement is necessary to carry on the operations effectively, and would, no doubt, prove very beneficial to the interests of the adventurers; whilst we cannot withhold our approval of the admirable arrangements at the surface, we still

withhold our approval of the admirable arrangements at the surface, we still consider that no expense has been spared.—Might not a surface agent be made available for our suggestion for an additional underground agent?

Rumour has said that this mine has seen the best of her days, but we unhesitatingly declare that there are thousands of tons of ore discovered at this time, and we have no doubt of its making a lasting and profitable concern.

In conclusion, we would briefly remark that we can see no obstacle to the returns being fully 1200 tons per month, and that for some considerable time to come.—J. CLYMO; B. OPIE; W. RULE: South Caradon Mine, March 24.

DEVON GREAT CONSOLS—RAILWAY.

SIE,—A few days since, business having called me into the Devon Great Consols district, my attention was occupied by the subject of mines, and matters connected therewith. When conversing with a friend on the subject of the carriage of materials and produce to and from these mines, and finding that the expense of the conveyance is, with the present roads, necessarily heavy, it occurred to me, that a railway from Morwelham, by the side of the Tamar, to the mines, would be an important acquisition to the company, because it would effect a considerable saving in this item of expenditure. The construction of a railway between those points would, in my opinion, be a good specialition for any company; so that, if the adventurers were to construct it, they would derive a double benefit—viz.: the saving in their transit cost, and the profits on the railway. rofits on the railway.

It might be objected by some, that the traffic is not sufficient to pay a proper per centage on the outlay; to which I would reply, that if the costs were equal to that per mile on some of the most expensive lines, the objection would hold good; but as the cost would be trifling beyond the mere materials (for I presume that the noble proprietor would give the land), the outlay would be so limited as to be no subject of objection. I have no doubt that the line, if used exclusively for these mines, would pay for the outlay; but this would not be the case, us several other mines of rising importance are at work in the vicinity. These are Bedford United, Huel Williams, Lamherooc, South Maria, and others. Besides these mines, there are traffic wants of the neighbourhood be supplied, for which purpose, and for the use of the Callington and Holmbush Mines, the railway might, after awhile, be extended three miles up the valley. If any timid person should object, secondly, that the Devon Great Consols are not likely to last long enough to remunerate the adventurers in the railway, I answer, that there is no mine in the neighbourhood, from what I can learn, more likely to last han these mines. The sett is very extensive, the lodes large and good, and several mines are at work in the sett, of a very promising character. On all these circumstances, I congratulate Mr. Hichens, and the other fortunate adventurers. I remember, that about 24 years ago, the Husel Vor Consols adventurers, taking into consideration the great expense of carriage of coals, &c., contemplated the laying a railroad from those mines to Hayle: a surveyor was employed to try the levels, and report on the line. This was done, and the project abandoned, from a fear that the mine would not work long enough! The mine only recently ceased to work, after working about 40 years, during which period the sum which the adventurers paid for the carriage of coals, &c., would have repaid for a railway, probably, four times. Now, although no man can speak assuredly as to the duration of a mine, I look forward to seeing Devon Great Consols rich

mine, I look forward to seeing Devon Great Consols rich in old age—i.e.: if I live to old age myself.

The line could be worked most inexpensively, because the carriages would run down by the gravitating force, and might be drawn up by water-power; so that, I apprehend, a more economical plan could not be conceived of working a line; nor do I see a more eligible site for a railway on a small scale.

Truro, Murch 23.

R. Symons.

SOUTHERN AND WESTERN MINING COMPANY OF IRELAND-GURTAVALLIG MINE.

GURTAVALLIG MINE.

SIR,—The first general meeting of shareholders was held in Cork, on the 6th inst.—not in Dublin, as appears to have been the case, by your Journal of the 18th inst. In answer to several questions, I stated in reply, that, considering the nature and extent of our operations—the concern being completely in its infancy—I had never seen a mine opened with better prospects of ultimate success; and that, if we obtained anything like a moderate price for the cargo of ore now ready for shipment, it would fetch 600L

Coosheen Mine, County Cork, March 22.

WHEAL TREVENNA.

SIR,—Our pitwork is fixed to the 30 fm. level, and we have driven west on the course of the lode in that level about 4 fathoms, and east about 2 fathoms. In the western end, the lode is from 2 to 3 feet wide, containing spots of copper, and a considerable quantity of mundic, together with spar, peach, and prian: the ground is very favourable, and may be driven for less than 2l. per fm. In the eastern end the lode is from 3 to 4 feet wide, very similar in appearance to that in the western end, and ground equally favourable—a circumstance which will enable us to make a fair trial of the lode in that level, in very little time.

will enable us to make a fair trial of the lode in that level, in very little time. From the fact of the lode containing such quantities of mundic in this level, more than had been seen any where above, and of its being very near an elvan course, my former opinions are the more strongly impressed, that we shall meet with an ample remuneration for our outlay, by a very moderate degree of perseverance.—Samuel Bennettes: St. Neots, Cornwall, March 25.

ST. JOHN DEL REY MINING COMPANY.

ST. JOHN DEL REY MINING COMPANY.

Sir.—"A Proprietor" addressed a letter to you last week, respecting the treatment of the slaves belonging to the St. John del Rey Mining Company in the Brazila. I have no doubt that the directors wish to have their slaves well treated, but how is it that "A Proprietor" does not say, if it be true or not, that they have been severely punished with lashes? Will he justify the fact of the company holding slaves? Will he deny, that by hiring slaves annually, which is done to evade Lord Brougham's Act, which forbids their purchasing slaves, the company does not encourage slavery? In one part of "A Proprietor's" letter, he talks of the slaves being "creatures of the same Almighty Creator, and entitled to the utmost forbearance at our hands." Does he maintain, that the company purchase slaves, and hire them, for the purpose of benefitting them (the slaves), or for the company to raise gold for their own profit? It appears to me, that it is profaning the name of the Almighty, to use it in such a cause. The affair will not end here. A petition will soon be sent to the hom. Members, to inquire into, and obtain from, the company a statement of how many slaves are held, how many purchased lately, or hired, and how they are punished, &c. With regard to the English employed there, I have nothing to say—that belongs to the shareholders; though I read in one of your Numbers, of men being fined for attending divine service and there are four men asking for their discharge; and that the persons who officiated at divine service went immediately afterwards to play at billiards and dance; and that every man, when his time is up, will leave. This does not speak much for the good feeling there; and there are English miners in Cornwall returned, who will vouch for its truth.—A Subscience: City, March 30.

SLAVERY IN FOREIGN MINES.

SLAVERY IN FOREIGN MINES.

Sir.,—The St. John del Rey shareholder, whose letter appeared in last week's Journal, should have made some further inquiries, respecting the slavery on the mines, while he was at the office. He states, that there are four or five who are provided with an extra suit of clothes annually for good canduct. Say, this is one slave out of a 100, and that one may be a favourite, on account of his cruelty to the 99. What I want to ask of the shareholder is, did he inquire how many had been flogged during the last year; and how many stripes each received at a time? What each offence consisted of? Who gave the order for the flogging in each case? and who was present at the time it took place? Surely, the directors can farnish these particulars—otherwise, they are not fit for the office they fill. I maintain, that slavery ought to be done away with, likewise, flogging in the army and navy; and I am happy to see the French, under the new order of things, have abolished slavery, and flogging in their army and navy. My opinion is, that no Englishman, or company, can hold or flog slaves in Brazil, Cuba, or any other place, under severe penalties; and each shareholder, as well as the directors, is liable to a penalty for each slave so held or employed. Is it not disgraceful that Englishmen should advance their money for such purposes? But it is believed the time is fast approaching, when such supporters of slavery and flogging will be held by all respectable persons with the contempt their conduct merits. An Enemy to Slavery.

Curabill, March 29.

TUTWORK AND TRIBUTE.

Sir.—The letter from "A Mine Agent," which appeared in your last on this subject, not being in accordance with the views entertained by many of your readers, I am induced to request the favour of your inserting the following ob-

stogect, not seeing in accounted the favour of your inserting the following observations in reply.

Although "A Mine Agent" is of opinion that the present mode of setting bargains is not calculated to prove beneficial to the parties concerned, it does not appear to me that he has succeeded in proving the evil to be so great as he supposes. He states that, in his opinion, "a man attending a mine setting, should be on the same footing with those who attend a public auction—having the benefit of a fair competition for the work offered; but, under the present system, not one in fifty has anything like a fair chance for the work set at a mine survey." I think, that on reconsidering the contents of the paragraph just quoted, "A Mine Agent" will, without much difficulty, perceive a great distinction between competition for labour and for goods sold at a public auction. If one man outbids another at an auction, he obtains the article at what he considers a reasonable price. This competitor is not injured by the prachase; not so, however, with regard to labour; as, if one man cut another at a mine survey, he takes the bargain at a very low price; and the consequence is, that he not only causes injury to others, but becomes a loser himself by his unwise conduct. Another objection to this unlimited competition is, that it is unfair for strangers to enter a survey, and, just for the sake of getting a place, to cut out others who have been previously engaged in the mine—unless the former taker refuse the captain's price; then, of course, the bargain is open to to cut out others who have been previously engaged in the mine—unless the former taker refuse the captain's price; then, of course, the bargain is open to fair competition. And if a pare of men take a pitch, or bargain, and work the same to the satisfaction of the agents, they certainly should be entitled to the preference at the ensuing setting.

same to the satisfaction of the agents, they certainly should be entitled to the preference at the ensuing setting.

Our friend goes on to state—"The remedy I propose, is for the setter to offer at first only a certain portion of the price of each pitch or bargain, and advance, if necessary, to the agent's price." The object of this proposal merely appears to be for the purpose of setting bargains at the lowest price—no matter whether the men can get a living or not. If a captain has fixed a fair price, why ask half that sum, when he knows it is not a just remuneration for the labour required to be performed?

half that sum, when he knows it is not a just remuneration for the labour required to be performed?

As before observed, I do not consider that any valid reasons have been given for the discontinuance of the present system; and, in drawing his conclusions, it is tolerably clear, that "A Mine Agent," in his anxiety to promulgate his economical principles, has overlooked the well-known axiom, that "every man is entitled to a fair day's wages for a fair day's work."

Tavistock, March 28.

FAIR PLAY.

TUTWORK AND TRIBUTE.

Sir.—In perusing your valuable Journal this week, I observe there a letter, alling the attention of all the agents and shareholders in mines to a new mode of setting tutwork and tribute, by "A Mine Agent," as he calls himself, who rocesses to have the interest of both the employer and the employed in view; but I query if he has either of them—I should rather think that he is one of but I query if he has either of them

these inexperienced persons that have got into a situation as a mine agent, by the aid of some cousinship, and new is out of employ, whe thinks, by his new plan, to obtain another; but if he had much experience in mining, he never would let himself down so low, as well as all other practical agents, as to make so ridiculous a statement as to say, that they are not judges of a fair price for a tutwork bargain or a tribute pitch. Should his plan be adopted, in the first place, we should have all our bargains and pitches taken by the good-for-nothings that are idling about from place to place, and will not half work when they have it; and instead of 8 fms. of ground per month driven or smak, we should have about 1 fm., and the adventurers' property would be ruinously deteriorated. Agents would be but little obeyed, as the men would set but little value on their places, as they might fully expect to be out of employ the next month. Suppose, now, we were to adopt this plan, what are men of families to do, how are they to act, when out of employ?—I mean those who have loft their homes, and have come some 50 or 60 miles, and are now settled in this county and elsewhere; we should fill the unions in a short time, and I have no doubt but that much bload would be shed after a while. Look at Fowey Consols, when the same plan was in operation, what was the consequence?—a strike with the miners, and nearly a rebellion; I believe many at that time would as soon have taken a sword in hand, or musket to shoulder, and fought for bread, as go home to their starving families. I know no better plan for mining operations to be carried on in a judicious and economical manner, than to give a price at sight, and a month's stent, as this will be the most profitable to both parties, and our mines would be worked with spirit. I hope that we shall not think of cutting miners' wages below what they are at present—for I assure you, that many of them are half starving at this moment; they are, it is well known; the most useful class of men u

Journal any more, for 1 think it of greater worth than to be niet up with successing stuff as his.—John Seymours: Caradon Wheal Hooper, March 28.

ANTIMONY AND SILVER-LEAD MINING AND SMELTING COMPANY.

A meeting of the gentlemen connected with this undertaking took place at the offices of the company, 58, Lombard-street, on the 29th of March last.

Capt. F. J. Billaw, H.E.I.C.S., in the chair.

The purser submitted the reports received from the different agents who had inspected the mine (which have already appeared in the Mining Journal), which were most satisfactorily received; after which the rules of the company, being conducted on the Cost-book System, were submitted; and it was unanimously agreed, that the same should be considered and adopted as the rules of this company, and that the necessary steps should be taken for the purpose of erecting a refining-house for the antimony ores. A letter was also laid before the committee from Professor D. T. Ansted, M.A., F.R.S., and Consulting Mining Engineer, who had left on purpose to examine into the antimony and silverlead lodes in this mine, and report generally upon the features of the district. It is expected that his report will be laid before the committee and shareholders at the next meeting, to be held on Monday, the 40th of April next, at 2 o'clock, P.M. The specimens sent from the mine were duly examined, and a general observation, that finer specimens of antimony had never been seen in London—some of which were upwards of 70 to 100 fbs. each, perfectly solid.

Capt. J. Froyro, of the Tin Vale Mine, being in town, and having inspected the lodes in the sott, entered into a lengthened detail of the facts connected with the mine, and stated, that there was no question of this making a firstrate adventure; and, during his whole experience in mining, which had been opened, examined and traced this lode for upwards of 100 fms., and found it to be a regular pipe of antimony, carrying on the backs as fine a gozzan as a lode could possibly carry; and, that no m

COPIAPO MINING COMPANY.

The half-yearly meeting of proprietors was held at the offices, Austinfriars, on Thursday, the 30th of March.

CHARLES HEATON ELLIS, Esq., in the chair.

The advertisement calling the meeting having been read, also the report of the last meeting, the CHARMAN then read the following report:—

The advertisement calling the meeting having been read, also the report of the last meeting, the Charraman then read the following report:—

REPORT.

Since the meeting of the shareholders, in October last, the directors, after giving full consideration to the reports of their special commissioners, came to the resolution of cembining in one person the office of head manager and chief mining captain at Copiago; they, in consequence, informed Mr. Bingley, in Nov. last, of their determination that a new system of management and great economy for the future had become unavelable. They subsequently, after much communication with their late chief mining captain, after Sampson Waters, concluded an agreement with him, giving him full powers and instructions for winding up all accounts with Mr. Bingley; also, directions for the future management of the company's affairs at Copiago. They feel much confidence in Captain Waters' scal and ability. In Dec. last they informed Mr. Bingley of the step they had taken, and gave him notice, in due form, of the termination of his engagement with the company. Capt. Waters left England for his destination by the packet of the 17th Jan. last, and will, it is expected, reach Copiago about the end of the present month.

At the last meeting the directors informed the shareholders, that, acting under the advice and recommendation of the special commissioners appointed to inspect their property, they had come to the resolution of giving up the workings of the aliver mine of Pampa Larga, and had given notice to the manager to that effect, which notice he sagknowledges to have received on the 29th December, and that it! should have his time distance of a property, they had come to the resolution of giving up the workings of the aliver mine of the value of about 70 tons of silver ore, raised at the mine for account of the company, third have in this mine, up to the present period, amounts to about 5500.1, against this is to be set of the value of about 70 tons of silver ore, raised at the min month; and, according to the reports of the assistant mining capitains left in charge of the mines, the prospects continued favourable; the cres are reported to be of a superior quality. There is little doubt that, when the English miners, hitherto employed at the silver mine, shall have been removed to the copper mines, the produce will be considerably increased. With reference to the relief to be afforded by Government, in respect of the duty, imposed in 1842, on the importation of foreign copper ore, it may be interesting to the shareholders to know, it at the amount paid by the company, since that year, has amounted to no less than 11,500.

It was resolved, that the report be received and adopted.—The thanks of the meeting were then voted to the directors for their attention to the interests of the shareholders, when the meeting separated.

WHEAL SPEARNE CONSOLS.—At a meeting of adventurers, held at Balles-widden, on Tuesday last, the purser (Richard Pearce, Esq.) produced the accounts for the past three months, showing an expenditure of 1945l. 4s. 11d,—leaving a balance in favour of the adventurers of 494l. 15s. 9d.—It was resolved, that the purser should make an immediate dividend of 2l. per 128th, share, making 256l.—leaving a balance of 238l. 15s. 9d. to be carried to the next account in favour of the mine. We understand that the total amount of calls made on the adventurers in these mines has been only 10l. per 128th, or 1280l.—a sum far short of the value of the engines, and other materials, the property of the adventurers, who are now congratulated on having received 15l. 15s. per 128th, or 2016l. in dividends, with every prospect of a continuance. Much, however, must depend on the state of the tin trade, which has been sadly depressed in this county, with prices declining for 12 months past.

CALLINGTON MINES COMPANY.

The fifth annual general meeting of adventurers in this company, was held at the offices, Finsbury-square, yesterday (Friday).

R. HODGON, Eag., in the chair.

The circular letter convening the meeting, and the following report, were read:—

The progression which has been made in the several departments of these mines, during the past 12 months, has been carefully described and particularised by the quarterly reports and accounts, which have been aubmitted to you by the directors; and a retrospective view of the results, since the last annual meeting, will fermiab convincing proof of the successful development of the ledes, which indicate, in further prosecution, good and lasting results. If, therefore, the state of this property, 12 months since, is contrasted with its present position, it will be proved, that, in all circumstances, the mines have progressed in prosperity. Explanatory details, with relation to the Kelly Bray lode, are furnished by the agent's report, from which it will be deduced, that, since the last annual meeting, the shaft has been sunk 35 fathoms upon the lodes; levels have been explored the repeated of the repeate

	-					
Statement of Accounts for three Months, ending	Dec., 1	847.				
EXPENDITURE.						
To amount of Oct. cost, including Kelly Bray						
Ditto Nov. cost, ditto	1802	13	4	22 10		
Ditto Dec. cost, ditto	2048	6	10-	-5795	3	1
Discount and interest				36	4	9
Disbursements-directors' attendances, 621, 10s.; London ma	nageme	nt. 5	02.	112	10	0
Balance				668		6
THE RESIDENCE OF THE PROPERTY				1		
Total				20010	-	3
BECEIPTS.				20012	9	0
By silver-lead ore—October returns						
Ditto November ditto						
Ditto December ditto	1678	16	9-	-5094	19	
Kelly Bray October cost	£ 399	2	10			-
Ditto November ditto						
Ditto December ditto			7			
Diffe December auto	000	**	*		. 6	
and the second s	£1200	14	-			
Less copper ore sold			4			
						0
Add ditto ditto				556		4
Ditto tin ditto, 71. 18s.; ditto old iron ditto, 101				17		0
Balance from last account	*****			298	17	6
				-		_

[The mining captain's report will be given at length in our next Journal The resolutions passed by the meeting will be found in our advertising columns.

HOLMBUSH MINING COMPANY.

The annual general meeting of shareholders was held at the Mining Offices orge-yard, Lombard-street, on Wednesday, the 29th of March.

The annual general meeting of shareholders was held at the Mining Offices, 8, George-yard, Lombard-street, on Wednesday, the 29th of March.

A brief report from the directors was submitted, with a statement of accounts to the end of 1847, and full reports on the mine, which were personally explained by Capt. W. Lean, the company's agent, to the satisfaction of the shareholders present. The directors stated, that the general fall in the value of mining produce had seriously affected the amount of the returns during the past year; and that, knowing the importance of pushing on the workings with vigor, in order to accomplish as rapid a development of the mine as practicable, they had employed an adequate number of tutwork men—the result of which was manifesting itself in the larger returns of lead ore, with prospects of considerable increase from the lead lode, by the further extension of the levels. The value of the lead being great (the last sale being at 18t. 17s. 6d. per ton), a few additional tons per month would produce a satisfactory result. Good expectations are also entertained of the operations on the flap-jack lode. The accounts showed a total expenditure, from Jan. to Dec. inclusive, of \$5622. 14s. 1d., with returns from copper ore, 41622. Is. 1d., and from lead, 1087t. 16s. 9d.; which, with calls, 2000t., and a previous balance of 1964. 8s. 6d., 16ft a balance against the mine of 11164. 7s. 9d. Since then the balance from calls, due Jan. 4 and March 18, and sales of lead and copper ore, would, after paying Jan. and. Feb. cost, reduce the balance against the mine to about 300t. The mine report describes the lead lode as opening productive ground in most of the levels, though varying much in the quantity of lead ore it contains. The winze sinking under the 100 fm. level was reported to be worth 15d. per fathom, and had improved since the report was written to 20t. per fathom. This winze, being 12 fins. in advance of the 110 fm. level, offers a fair prospect; and the levels are being divined through favo

SOUTH ROSKEAR MINING COMPANY.

A meeting of adventurers was held on Tuesday, the 21st March, when the accounts for December and January were presented, showing—Labour cost, 8112.15s. 3d; merchants' bills, 3342.19s. 9d; interest and commission on advances, 2002.—13462.15s.—By sale of ore, Jan. 6, 10042.2s. 3d.; sale of old timber, 12.17s. 2d.; discount on oil, 15s. 6d.—leaving balance due to purser, 3402.0s. 1d. The accounts having been examined were allowed; and the re-

timber, 12. 17s. 2d.; discount on oil, 15s. 6d.—leaving balance due to purser, 3402. 0s. 1d. The accounts having been examined were allowed; and the report of the finance committee received and adopted. It was resolved, that a copy be forwarded to each aharoholder, accompanied by particulars, showing amount of calls due from each adventurer; and that notice be given that interest will be charged and insisted upon in respect of the sum due, if not paid on demand; and that legal proceedings be adopted by the committee to recover all sums not so paid.—Messra E. W. W. Pendarves and H. Willyams are tobe added to the committee, who are to have control over the future receipts and expenditure of the mine; an account, for such purpose, to be opened with the Minere Bank, but which is never to be overdrawn beyond 2006, without the directions of the adventurers, at a public meeting.—The balance due purser was then divided, and a call of 2l. 18s. 7d. per share made to pay it.

The following is the report of the finance committee:—

Your committee, conformable to the authority specially vested in them, received the ore bills for the last sale, ascounting to 1004f. 2s. 3d., and placed the same in the Joint names of the committee at the Minere Bank, out of which they have paid the labour cost since due. Your committee have also gone caverally into the accounts of the mine, taking them up from a date antereded rot which, up to the end of Jan. last, is now before you; also a statement of the sweets and liabilities, so far as your committee have been able to ascertain them; for, which they have no reason whatever to doubt the correctness of the accounts per limit for, which they have no reason whatever to doubt the correctness of the accounts laid before them, they report to have to report, that in the keeping of the accounts generally, that care in the preservation of vocatars here in the preservation of vocatars here

on the special notice of your committee, they have, as far as practicable, gone into the same; and looking at the quantity of timber charged from July 1843 to end of Novembel 1847, 582 loads, as near about the fairly computed consumption during that period, the committee cannot bring themselves to attach any other blame to the purser, on such as count, than the neglecting to bring forward the same from time to time as the date armed. The disposition of your purser to forther from the certainly unpleasant duty of making divisions of costs as the book became in debt (arising doublessly from an over sanguine expectation of better returns from the mine), has materially led to heavy charge for interest on the large sums advanced by the purser, and which, in common justice must be allowed him, inaspunch as that the adventurers have had the benefit of the borrowed capital; and further; it must be admitted, that although at each bi-monthly meeting, held in the course of the last three years, a heavy debt has been shown, yet no resolution was ever come to by the adventurers to liquidate the same. In the account now before you the interest charged to end of 1846 only appears, your committee having though at proper not be charged to end of 1846 only appears, your committee having though the proper not be charged to end of 1846 only appears, your committee having their bearing to materials to the men, the debts owing on such accounts being comparatively small. The next subject which has engaged the anxious attention of your committee, its he arrears of cost, which, owing to the heavy amount of the same so suddenly called for, and the depressed state of the money market, many of the adventurers have been unable to respond to; and however painful such a course must be to your committee, they feel bound to recommend that positive instructions be given to your solicitor to enforce, by legal precedings, the carliest possible settlement of such arrears, either by payment of the same or forfisture of shares. In conclusion, your c

ection or settlement of such arrears, and the liquidation of the debts of the hands of the finance committee.	of the	conc	ern,	be
To balance in hand, end of May, 1844	25,697	15	11	
Total				
By labour cost from June, 1844, to end of Jan., 1848	£22,977 8,795 207 331	9 6 7 8	3 8 6 5	
Total	4.60	ž	1	
£1326 19 2 Due to the purser	- 3062	2	7	

WEST WHEAL MARIA MINING COMPANY.

The two-monthly meeting of shareholders was held at the offices, St. Michael's-alley, Cornhill, on Thursday, the 30th March, pursuant to notice convening the same.—The following abstract of accounts was presented and passed, with many well merited encomiums on the proceedings of the committee of management, for the ability and zeal which they have displayed in bringing the financial affairs of the company into their present satisfactory position:—

Abstract of Accounts.	positi	on :-	
To balance of liabilities, as per statement of 27th January			
Total	£1612	14	
By payments made by the committee since 27th of January	£ 717 895	7 7	
Total	£1612	14	
To liabilities brought down £895 7 3 By cash at bankers	90	0	
Total£895 7 3 Total	V-23.5.	-	0

The following is the agent's report :-

March 28.—At your request, I beg to inform you, the western engine-shaft is down b low the 64 fm. level about 6 fms.—ground much the same as last reported. In the stope in the 34 fm. level, west, there is more work to complete than I anticipated; it end of which we hope to reach by the middle of this week, and resume the driving c what I suppose to be the Wheal Williams' lode. I would recommend to you the driving of the 64 fm. level west, on the north lode, as this is caunting very much; and I amopinion, that there are other east and west lodes, which will fall in with the above, driving in this direction; and I think there is a greater probability of discovering or than by driving east in the 54 fm. level, as this level is driven with 13 fms. of the easter engine-shaft, and the 38 fm. level, after from this shaft about 11 fms., in which there is a very large kindly-looking lode, about 5 ft. wide, producing good stones of ore consequently, the 54 fm. level is not driven far enough to get under this ore ground, which you referred in your letter.

The shareholders unanimously expressed the meetyes highly pleased with

The shareholders unanimously expressed themselves highly pleased with their present and future prospects, and especially as regarded their monetary affairs, which had been, previously to the committee of management taking the same into their own hands, in a very perplexed and confused state.

WEST WHEAL SETON MINING COMPANY.

A tri-monthly meeting of adventurers was held at the mine, on Tuesday, the 28th March, when the accounts were examined and passed, showing—Labour cost for Dec., Jan., and Feb., 6102. 10s. 6d.; merchants' bills, 3172. 12s.; balance at last meeting, 492£ 5s. 8d.—1360l. 8s. 2d.—By call, 1000l., leaves balance against the adventurers of 360l. 8s. 2d.—A call of 5l. per share was made; and it was resolved, that a sum of 25l. be paid Capt. John Lean for his attention to the mine, and 5 guineas per month from Jan. last; and that Capt. John Toy be paid 7l. per month from the same date. The following report was then read:—

John Toy be paid 7t. per month from the same date. The following report was then read;—

In forwarding you a report of this mine, and its present operation, I beg to state, since our last meeting of the adventurers, the north shaft has been such from the 18 to the 20 fm. level, and the 20 fm. level extended 23 fm. e. east—the lode is 2 ft. wide, composed of spar, mundle, and killas; the west end is driven 7 ft. from the shaft, where we have intersected a part of the cross-course, and leaving down a large stream of water; these two levels are at posent suspended, and will be for a short time, until the water decreases—being obliged to work the engine equicker, to keep this part of the mine drained, than was necessary, for either one of the south shafts; there are six men driving the adit, south of the north loid, on the cross-course at 4t, per fm. The engine-shaft is sunk 8 fms. below the 29 fm. level, in which we have eight men and four boys at 23t, per fm. Six men are driving the adit, west of the engine-shaft, at 5t. 10s. per fm. Should the ground continue favourable for driving, as it is at present, we hope to communicate with the adit, driving south from the north lode, in about six weeks: the south shaft is sunk 4 fms. below the 30 fm, level—the lode is 8 ft. wide, composed of capel, spar, prias, blende, and mundle, together with large stones of rich ore—six men, at 14t, per fm., to complete the shaft to the 40 fm, level; the 30 fm, level is extended about 6 fms. west—the lode is 6 ft. wide, composed of capel, about 5 fms. evel, to intersect the caunter lode, at 5t, 10s. per fm., which we hope to see in about 4 fms. driving. There are six men driving the 18 fm, level, west of the shaft, on the south lode, at 6t, per fm.; it is do led is 6 ft. wide, composed of rapel aid ora, which will leave tribute ground. There are six men driving the 18 fm. level, west of the shaft, our prospects are still very encouraging.

WHEAL ANDREW AND NANGILES MINING COMPANY.

WHEAL ANDREW AND NANGILES MINING COMPANY.

A meeting of shareholders was held at the mines, on Monday, the 20th of March, when the accounts were presented and examined, showing—Balance at last account, 5712. 17s.; Jan. cost, 5202. 4s. 3d.; Feb. cost, 3212. 9s. 10d.; merchants' bills, 3002. 5s. 3d. = 17132. 16s. 4d.—By division of loss, Jan. 17, at 2? 8s. 8d. per share, 5712. 16s. 8d.; copper ores sold, Jan. 27 (less dues), 3237. 1s. 8d.; black-jack ditto, Feb. 10, 512. 17s.; mundic ditto, 20% 6s. 2d.; black tin ditto, March 18, 1777. 5s. 10d.; leaving balance, 5692. 9s., which was divided and collected. In consequence of the heavy outlay incurred in working the mines, together with the prospect of considerable losses for some time longer, it was resolved—That the purser be instructed to ask the lords to assist the adventurers in carrying out the trials now being made, by remitting the dues, until the mine shall be placed in a profitable state of working.—The following report, from the mining captain, was read to the meeting:—

Since the last meeting of adventurers, the whim-shaft has been communicated to the 100 fm. level. The engine-shaft is now in course of being sunk under that level, and is down 2 fms. The 100 fm. level has again been commenced diviring east and west—the lode in both ends being about 18 in: wide, yielding some ores, and has a favourable appearance. In the cross-cut south, in the 80 fm. level, some brunches have been interested, underlaying north; but last week a 1-de was met with, having a south underlay

lode in both ends being about 18 in. wide, yielding some cres, and 'ins a favourable appearance. In the cross-cut south, in the 80 fm. level, some brunches have been interested, underlaying north; but last week a lede was mot with, having a south underlay—It is 2 R. wide, composed principally of soft spar, with spots of orce, and, altogether; its appearance is very encouraging; some uncertainty exists as to whether this lode has been discovered in any other part of the mise or not; its situation is just where Deebie's lode was expected to be seen, but its underlay, and the stuff of which it is coimposed, are both different from that lode; 'we are now opening eastward on it, and shall shortly be able to say more about; it the cross-cut will be resumed driving southward soon. The 70 fm. level, east from Bread and Cheese shaft, has been driven through ore ground for about 7 fms. in length during the past two months; and, although it has not been quite so productive lately, it is still yielding about 14 ton of ore per fm. Bread and Cheese shaft has been sunk to the 80, and we are now driving that level east; the lode in it large, with some ore; and we think it will be more productive shortly. Having reason to believe that there is another lode further south, is the 60 fm. level, at this shaft, we again commenced driving in that direction soon after the least meeting; several branches have been met with, and we are of opinion, that the end of the level is not far from a lode. On the north lode, west from the engine-shaft, the ground has been opened in the 40 and 50 fm. level, yielding, on an average, about 14 ton of ore per fm.; and the 70 and 80 fm. levels have also been driven through ground, which will be worked at high tributes. At this time, the most productive levels are the 40 east and west, and the 60 west, which are each yielding about 14 ton of ore per fm. The 80 fm. level also cratinus to produce amall quantities of ore. The 46 fm. level, east from Dunstanis shaft, has a lode in it about 2 ft. wide, which

that are making, as we still feel the confidence that some of them will ultimately prove successful.

WHEAL BLENCOWE MINING COMPANY.

A meeting of adventurers was held at the mine on Tuesday, the 21st March when the accounts were presented, showing—Balance due purser 21st December, 1812. 10s.; cost for December, 1452. 1ts, 141.; slantery, 1174. 7s. 5d.; February, 90f. 18s. 2d.; merchants' and other bills, 84l. 16s. 11d.—620d. 4s. 5d. By sale of tin, Feb. 5 (less 1-15st dues), 94l. 17s. 11d.; sale on the 16th March (less dues), 101l. 15s. 5d.; carriage of tin, 2l. 18s. 6d.; received on arrears of calls, 103d. 4s. 9d.; on account of call made 21st December, 136l. 2s. 10d.—leaving balance due to purser, 181l. 10s., to pay off which a call of 15s. per share was made. It was resolved, that legal proceedings be taken against defaulting share-holders; and that, "in future, the names of all parties in arrear with their cost, with the amount due from each, be stated in the circular containing the quarterly account."—The following agent's report was read to the meeting:—

The 30 fm. level is now driven about 14 fms. north, towards the east and west lodes—a very hard stratum of ground, which we met with in driving that level, has considerably retained our progress; but within the last fortnight the ground has become much more avourable, and a greater length can now be driven in one week than could have before been driven in a fortnight. In driving the 15 fm. level, on the run of the north and south lode, we have cut an east and west course, which in the 10 fm. level we considered to be nothing more than a small branch, but we can now safely pronounce it to be a lode of a very promising character; it is about 16 in big, seems to be very regular, and has an underlay of about 2ft. in a fm.—its direction is nearly parallel with the other east and west lodes. The int from this lode is of a quality much superior to that found in the north and south lode, and it can be rendered marketable at a much less expense. The extraordinar

the greatest possible despatch.

WHEAL WILLIAMS MINING COMPANY.

A meeting of adventurers was held at Farquharson's Hotel, Truro, on Friday, the 24th March, when the statement of accounts, presented and passed, showed a loss to the end of Feb., amounting to 2204. 13s. 10s., being 17s. 8d. per 250th share, when a further call of 1l. per share was made for the further prosecution of the mine, making 1l. 17s. 8d. per share, to be paid immediately into the Miners' Bank, Truro. The captain's report (copy of which we have not received) represents the mine in a satisfactory and progressing position.

diately into the anners bana, the mine in a satisfactory and progressing position.

West Wheal Basser.—At a meeting of adventurers, held at the mine on the 27th March, the accounts were examined and passed, showing—Costs and merchants' bills for four months, 629l. 1s. 9d.; by copper ores sold (less dues), 81l. 16s. 5d.: leaves a loss of 547l. 5s. 4d.; to which, add balance due to purser in Oct., 359l. 5s. 7d.: leaves balance against the mine of 906l. 10s. 11d.; from which deduct for calls, 640l.: leaves balance against advanturers of 266l. 10s. 11d.—It was resolved, that the above balance be divided and collected immediately; and that, in default, the purser be directed to take legal proceedings to recover the same. That in consequence of the great increase of water, and the almost impossibility of sinking the engine-shaft, all the levels below the 42 be suspended, and that that level be driven east and west, to cut other lodes.

SOUTH CARADON.—Abstract of accounts to the end of December, 1847:—To amount of November and December costs, 4284l. 18s. 9d.—By copper ore sold 30th Dec., 1847, and carriage on ditto, 2613l. 5s. 6d.; ditto 27th January, and carriage on ditto, 2673l. 10s. 8d.; sundry receipts for materials, 13l. 9s. 3d.—5300l. 5s. 5d.; showing profit on two months, 1065l. 6s. 8d.—add balance from last account, 439l. 4s. 10d.—1504l. 11s. 6d.—By dividend of 10l. per 128th share, declared this day, 1280l.—leaves balances in hand March 28, 224l. 11s. 6d.

Balleswidden Mink.—A week or two since, we stated that at a meeting of

1838 account, 4394. 4s. 10d. — 15044. 11s. 6d.—By dividend of 10d. per 128th share, declared this day, 12802.—leaves balance in hand March 28, 2242. 11s. 6d.

BALLESWIDDEN MINE.—A week or two since, we stated that at a meeting of the adventurers in this mine, it was seriously thought of suspending, for a time at least, a portion of the workings of this extensive undertaking, and that the sabject was deferred for further consideration, to a special meeting, fixed for Tuesday last. As might have been expected, considerable anxiety was manifested in this neighbourhood as to the result. We have now much pleasure in being enabled to state, that the spirited adventurers, at the meeting on the 21st inst., resolved not only not to abandon, but also not to suspend their operations, although the present very low price for the article they produce (refined tin) is such as does not reimburse them for their enormous outlay—(nearly 300,0002.)—in fact, the receipts will barely meet the current expenses; but it appears, out of pure philanthropy for the working classes, the adventurers have come to the determination we have mentioned. Too much commendation cannot be given to such a praiseworthy proceeding; and sure we are, that the workpeople employed in this concern will not undervalue the kindness and attention which have thus been shown to them, when employment, as they well know, is so very scarce in this neighbourhood. We also trust that they will not—in fact, we feel very confident that they will not forget their county motto, but will, "one and all," do their best to promote the welfare and interest of their benefactors. We believe that the number of hands employed in this mine, in the year 1847, and who received monthly pay, was, on an average, about 650; so that, taking into account the wives and families dependent on them for their daily bread, a population of not less than 2000 would have been almost, if not entirely, dependent upon the parish, or have subsisted on the charity of the neighbourhood, had the adventurer

ACCIDENTS.

Eagle's Bush Colliery, Neath.—On Wednesday evening last, a dreadful explosion place here, while between 25 and 30 colliers were at work, 19 of whom were hurried territy. How the awful affair was caused has not yet been ascertained, but it is fe to have been from the reckless use of a naked candle. d into

to have been from the reckless use of a naked candle.

Dastley, Salop.—A dreadful accident took place in the Lodge Pit, the property of Mr. Botfield, on Wednesday morning last, by which eight lives have been suddenly less the eight men in question, about five in the morning, were descending to their work and had descended only about 50 yards, whose the main shaft broke, and all were harded to the bottom—the whole mass of machinery falling on them, and shockingly nautilating them. The jury on the inquest, found that the iron which broke was defective.

East Wheal Rose.—On Tuesday, as John Clemow and J. Francis were at work in the 70 fm. level, in Penrose's shaft, they were crushed by a fall of earth—Clemow was taken out dead, the other much injured.

Creeg Bruses Mine.—On Monday last, a lad, whilst going underground, fell out of the ladder, about 3 fms., and alighted on the head of an old man, named Dunn, who, with others, was waiting on the "Ladder Soliar" for a light. The boy was uninjured; but the old man received such severe injury to the upper part of the spine, that J. Moyie, Esq., surgeon, of Chacewater, who was immediately in attendance, pronounced his case to be hopeless.

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1

Bigge's Main Colliery, Long Benton. - J. A. Campbell was killed by falling down the aple of the C pit.

Bilston.—S. Harbut was killed by a fall of coal while working in Mr. Bagnall's field. Bildion.—S. Harbut was killed by a fail of coal while working in air. Dagmars storm, Kingawinford—Faisl Accident to a Manager.—On Wednesday last; as Mr. T. Westwood, manager of a coal pit in Nagersfield, belonging to Mears. Firmstone, was engaged in taking a tree out of the working, a large quantity of coal suddenly fell upon him, and covered him. His cries for help brought the workinen in the pit to his assistance, and he was taken from beneath the coal as soon as possible. His back and his left arm were broken, and when got out he was quite deed. An inquest was held on the body on Friday last, when the jury returned a verdict of "Accidental Death."

Nagersheld Colliery, Kingswinford.—Wm. Darby, a youth, intended for an engineer, while working with his father, fell backwards from a ladder, and struck his head against an iron plate, from the effects of which he died.

Parkfield Colliery, Wolverhampton.—W. France was killed by a quantity of bricks falling from a skip, while descending the shaft of the colliery.

from a skip, while descending the shaft of the colliery.

L'speci.—T. Edwards was killed by an explosion of fire-damp in the Duffryn level—it appears that he went to the "heading" with a lighted candle, contrary to orders.

Kiducelly.—Patal Accident.—A. Mr. Sharpe's workmen, on the South Wales Railway, at Coca, near Kidwelly, on Friday morning last, were about letting off a charge of powder in the quarry, the explosion took place sooner than was expected, and three or four of the men who were near were injured; one of them, named J. Lewis, agad 29, a native of Kidwelly, had his skull fractured, and expired in less than two hours.

Eckington, near Machall.—I. Torr, while working in Mr. Luke Worrall's colliery, neglected properly propping the root, when about 3 tons of coal fell and killed him.

Martin Lon, near Whitcharen.—R. Graves was struck by a stone, which broke his leg while working in one of the ore pits belonging to George Huddleston, Eag.

Death from the breaking of a Railway Chein.—As Sherburn Rill, as the stationary engine was drawing two wasgeess up the incline, the chain broke, and allowed the wasgen to descend with fearful rapidity; a boy, six years old, tried to creas the road, was knocked down, and run over,—he was taken home, and seen died.

THAMES TUMMEL COMPANY.

THAMES TUNNEL COMPANY.
sengers who passed through the Tunnel in the week ending Mar. 25,
was 18,200; amount of money, £75 16s. 8d.

Current Prices of Stocks, Shares, & Metals.

MINES.—There has been a considerable animation in the mining share market during the past week, sufficient, we trust, to compensate for the deficiency of business during the last month.

There have been several inquiries for Devon Great Consols, East Wheal Rose, South Wheal Francis, and Treviskey and Barrier, in each of which mines some business has been done. In referring to the Devon Great

mines some business has been done. In referring to the Devon Great Consols, we believe a great number of shares would have changed hands, if holders would conform to buyers' prices; but we should think the report of Capts. Clymo, Rule, and Opic, which we this day publish, will have a tendency to induce buyers to close their bargains, rather than withhold. Since the completion of the East Tamar Company we flud that applications for several hundred shares have been made—consequently, they have realised a premium. We understand that operations will be resumed next week, and the management of the mines will be left in the hands of James Wolferston, Esq., whose appointment reflects the highest credit upon the managing committee for their judicious discernment. Several transactions have taken place in Cwm Erfin shares (a lead mine in Wales), whose prospects have been represented as highly encouraging. Carwinning Hill shares have been revived by a demand, and several purchases have been effected, in consequence of favourable reports from the mine.

East Wheal Friendship shares have been done this week at a premium, which, we understand, arises from an important discovery made in Wheal Friendship, near the western boundary of the former sett. Some inquiries have been made for Great Rough Tor, Bedford United, and Heignston Down Consols; but we are not advised of any important sales.

Shares in the following mines have changed hands this week—viz.: East Wheal Rose, West Tolgus, South Wheal Francis, Devon Great Consols, South Trelawny, West Wheal Francis, Treleigh, Great Consols, Treviskey and Barrier, Marke Valley, Mendip Hills, Tin Vale, Wheal Bucketts, Cwm Erfin, Carwinning Hills, Trehane, Herodsfoot, Mary Ann, Tamar, Carn Brea, &c.

The Holmbush Mining Company held their annual meeting on Wed-

Cwm Erfin, Carwinning Hills, Trehane, Herodsfoot, Mary Ann, Tamar, Carn Brea, &c.

The Holmbush Mining Company held their annual meeting on Wednesday last, a report of which will be found in another column.

The bi-monthly meeting of the West Wheal Maria Company was held on Thursday, when it was found unnecessary to make an immediate call, from the pleasing position to which the committee of management had unexpectedly brought their financial accounts.

In the foreign share market we find but little business has been done—a few Altens, Asturians, Kinzigthals, and Australians, complete the list. Despatches have been received from Copiapo and the Mexican Mines generally, reports from which we have given in detail.

RAILWAYS.—The railway share market opened, at the commencement of the week, exceedingly flat, and almost every quotation showed a reduction. In foreign shares absolutely no sales could be effected. Towards the close of the week the market was still more depressed, and a deal of stock was brought for sale, but a further decline of 2l. per share has been the result.

HULL, THURSDAY.—Our market has continued without animation. Yesterday, and be day previous, there were, however, signs of improvement, which have now vanished, a gensequence of the warlike accounts from the continent.

RAILWAY TRAFFIC RETURNS.

Name of Railway.	Lgth.	Present ac-	Price per share	Last Div.	Traffic .	Heturns.
Birkenhead, Lancashire,& Chesh.	15	706,793	37	6 p. c.	£ 629	-
Caledonian	130	3,594,470	26	-	3133	1 =
Dublin and Drogheda	35	733,655	52	38	590	702
Dublin and Kingstown	71	473,282	1012-001	7	676	562
Dundee, Perth, & Aberdeen Junc.	474	285,745	27	6	744	312
East Anglian (Lynn to Ely)	551	1,062,742	74 8	_	453	-
East Lancashire	24	1,733,915	18	-	888	
Eastern Counties	2214	7,698,370	13#	5	10567	9048
Eastern Union	50	979,926	80		975	922
Edinburgh and Glasgow	53	2,875,745	37±	6	3167	3243
Edinburgh and Northern	29	953,207	18	-	1116	0240
Giasgew, Paisley, and Ayr	644	1,890,547	852	7.	2025	2126
Glasgow, Paisley, & Greenock	23	838,964	16	3	920	950
Gt. Southern & Western, Ireland	1101	1,876,326	174	-	2423	1201
Great Western	2812	10,970,636	884	7	16963	16954
Kendal and Windermere	101	169,888	28	- 1	104	1
Lancaster and Carlisle	70	1,395,198	433	4	1492	1
Lancashire and Yorkshire	1241	6,807,314	86	7 1	8809	8240
London and North Western	428	21,513,354	126	8	34753	35428
London and Blackwall	4	1,146,289	42	1	717	860
London, Brighton, & South Coast	1524	6,087,822	291	4 1	6767	5756
London and South-Western	189	6,264,164	444	8	6637	6337
Londonderry and Enniskillen	14	160,013	16	-	127	1 -
Manchester, Sheffield, & Lincolnsh.	46	2,336,624	80	5	2095	1947
Maryport and Carlisle	28	424,417	39	8	466	479
Midland Company	402 i	8,658,604	96	7	18566	17414
Midland Great Western (Irish)	361	583,776	102		1056	-
Newcastle and Carlisle	661	1,184,080	1014	6	1960	2152
Norfolk	814	1,375,633	63	6	1673	1552
North British	78	2,514,150	201	5	1983	1344
Shrewsbury and Chester	17	591,158	15	-	587	334
South Devon	29	1,339,860	20	-	916	479
South-Eastern	165	6,398,218	23	6	7045	6845
Taff Vale	38	785,607	100	54	1853	1474
Dister	25	646,211	52	6	839	762
Whitehaven Junction	12	147,095	THE AND LINE	6	161	-
York, Newcastle, & Berwick	236	3,685,102	29	9	10035	7345
York and North Midlend	230	3,196,869	61	10	7292	5791

Total earnings for last week, £159,800, being an increase of £19,024 over last year.

BANGOR AND COYTMOR SLATE COMPANY. X

BANGOR AND COYTMOR SLATE COMPANY.

The vast, and almost incredible, demand which has been made for slate within the past few years, have been the means of projecting and establishing several new companies for working the varied beds of slate which have been discovered in the principality of Wales. But among the numerous claims which these respective companies have set forth for public co-operation, we have not observed that any of them have possessed advantages equal to the Bangor and Coytmor Slate Company, now under notice (advertisement of which appears in another column). All the requisites for rendering an establishment of this kind successful, appears to be centred here—the property being of vast extent, the slate of a durability and beauty not excelled (proved by the celebrated quarry of Col. Pennant adjoining), the easy and expeditious mode of transit to the wharf for shipment, the exclusive freehold right of quay or wharf, the facility afforded by an admirable tunnel, already excavated to the centre of the slate bed for drainage, all combined, renders it one of the most advantageous schemes that has ever been brought under public notice. The prospectus informs us, that the demand of 1s. per share, fixed by the Joint-Stock Company's Act will not be called for before the company has been completely formed.

We learn that it is not uncommon to see from 150 to 200 sail waiting in the Menal Strait for cargoes of slate, and that an average from 50 to 60 vessels throughout the year wait their turns for Col. Pennant's slate alone.

The demand not being confined to Great Britain, but to all our colonies, as well as to various parts of Europe, Africa, and America, is the product of this locality—not omitting the vart contracts by the Government and railway companies; and we may further notice, as a remarkable fact, that whilst a depreciation has taken place in almost every one of our natural products, as well as manufactured articles, that this material has rather advanced than decreased in price, thereby making

LIABILITY OF SOLICITORS TO PUBLIC COMPANIES AS PARTNERS.—A case of considerable importance came before Mr. Commissioner Fonblanque, in the Bankruptcy Court, on Thursday last, as invalidating the claim of attorneys to public companies for their costs, when they are shareholders, and, consequently, copartners. It was in the case of the Tring and Basingstoke Railway; and it being a dividend meeting, Mr. Cook appeared on behalf of Messrs. Hill and Everili, who had been formerly solicitors to the company, to tender proof on their behalf for 46061. Mr. Lawrance represented the assignees, and opposed the proof, on the ground that Messrs. Hill and Everili were partners, and, as such, could not prove against their copartners; the minute-book was produced, from which it appeared, that a number of shares had been allotted to Messrs. Hill and Everill. The Commissioner inquired, if Mr. Lawrance could sustain his position, would not those gentleman be entitled to their share of the surplus, after the creditors had been paid 20s. in 12.7 Mr. Lawrance said, that shareholders who had paid their calls would be entitled to receive the dividends, but Messrs. Hill and Everil had not paid, and, therefore, instead of being creditors of the company, they were indebted to them. Mr. Cook replied;—when the Commissioner said, nothing was more clearly established than that partners cannot prove against each other; he cousidered Messrs. Hill and Everill had constituted themselves partners, by the acceptance of the shares; and he should, therefore, refuse the proof; but if, in the case of Mr. Green, now before the Vice-Chancellor, a similar decision should be reversed, he would rebear this case.

PRICES OF MINING SHARES.

	PRICES OF M	INING SHARES.
4	BRITISH MINES.	BRITISH MINES-continued.
	Shares. Company. Paid. Price	Shares, Company, Paid, Price.
	Shares. Company. Paid. Price 1000 Abergwossin	1100 South Dolcoath 3 21
1		198 South Caraden 10 480
3)	1600 Antimony and Silver-7	206 Sth. Friendsh. Wh. Ann 16 25 200 South Harvannah 10 25
Ч	Lead Mining & Smelting	256 South Tolgus 74 50 256 South Treiswney 20 9
1	1000 Antimony and Silver- Lead Mining & Smelting 5	256 South Treiswney 20 9
		128 South Yeoland 164 20 128 South Wheal Basset 110 79 256 South Wh. Betsey 21 5
8	1000 Barristown 44. 3	256 South Wh. Betsey 21 5
4	128 Beaure Lead Mine 14 10	
П	1244 Birch Tor Tin Mine 94 4	1000 South Wh. Hope 5
	8000 Blaenavon 50 23	956 South Wheal Rose 114 1
3	120 Brewer	256 South Wh. Sophia 4 4 4 4 4
1	120 Brewer	280 Spearne Moor 30 40
1	- Ditto ditto, scrip. 10 10 128 Budnick Consols 521 30 128 Burshy 20 21 100 Bwich Cwmertin 20 21	1 256 St Australi Coursels 0
1	128 Burthy 20 21	94 St. Ives Consols — 320 128 St. Michael Penkivel . 5 . 101 999 St. Minver Consols 1 . 6
1	100 Bwlch Cwmertin 20 —	999 St. Minver Consols 1 6
1		1000 Stray Park
1	20000 Cameron's Steam Coal 4 51-4	1024 Tavy Consols 4 7-10-19
1		6000 Tincroft
1	256 Caradon Mines 221 17 256 Caradon United 24 5 256 Caradon Wh. Hooper 21 15	100 (0-1
1	256 Caraden Wh. Hooper 21 15	256 Trehane 2 25
1	3000 Carthew Consols 13 80	
1	1000 Carn Isrea	2000 Trenance
1	. 112 Charlestewn 320 30	120 Trethellan 5 . 16
1	166 Cleveland 9 5 512 Coatlithe Hill 2	120 Treviskey and Barrier 120 190
1	1900 Combinartin 74 3	128 Trewellard 19 961
1	500 Comblawn 54 6	100 United Mines
1	256 Condurrow 20 30	256 Wellington Mines · 15 25 128 West Basset 45 25
1	2049 County Tip Mine 44 4-5	1 205 West Caradon on 100
1	1000 Coombe Valley Quarry 24 344	128 West Cargoll 2 . 12
1	6500 Cornish 2 24-24 1000 Copper Bettom 14 64	256 West Providence 9 25
1	1024 Cosheen 44 20	200 West Seton 40 . 150
ı	240 Craddock Moor 162 15	West of Scotland IronCo. 210 . 210
ı	128 Creek Braws 120 100	256 West United Hills 5-8
ı	500 Cubert Mine 121 10 1000 Cwin Erfin 12 21-3	1 256 West Wh. Friendship. 9 19
ı	1000 Cwin Erfin	2845 West Wheal Jewel 11 11 2860 West Wh. Maria 3 1
ı	7500 Demela Mines	256 West Wheal Shepherd. 5 21
1	7500 Demelza Mines 2 — 7100 Derwent 8 5	256 West Wheal Tolgus 211 5
ı	1024 Devon&CourtenayCon. 7 21 1024 Devon Great Consols 1 210-15 1000 Dhurode 2 5	256 West Wheal Shepherd. 5
1	1000 Dhurode 2 5	
ŀ	186 Dolcoath 30 50	1000 Wheal Agar
1	2560 Drake Walls 4 4 10000 Durham County Coal. 45 9	128 Wheal Acland 13 . 9
1	3000 Dyfngwm 10 124	256 Wheal Allen 2 5 240 Wheal Anderton 21 25
1	256 East Alvenney 10 25 112 East Caradon 47 47	128 Wheal Ann 504
Ł	2048 East Crowndale 51 41	512 Wheal Ann, Bridford. 1 2
ı	512 East Combe Silver-Lead 64. 64	512 Wheal Anna Marin 31 . 5 1024 Wheal Ash 41 . 8
ı	128 East Pool 5 15 100 East Relistian 22 40	120 Wheal Bal bt. 20
1	- East Wheal Albert 1 3	2000 Wheat Barbara 14 4-5
ı	94 East Wheal Crofty 125 280 1024 East Wheal Fortune 2 3	206 Wheat Bioncowe 21 5
1	1024 East Wheal Friendship 3 3	
ı	128 East Wheal Rose 50 1150 2048 East Wh. Rough Tor 2 2	136 Wheat Clifford 190 190
ı	- East of Scotland Iron Co. 21 1	1024 Wheal Coad
1		
1	256 Exmoor Wh. Eliza 2	256 Wheal Dyke 12 12
	512 Fowey Consols 40 45	200 Wheat Fortesche b 5
١.	123 East Wheal Seton 14 15 256 Elborough 1½ 2 256 Exmoor Wh. Eliza 2½ 6 512 Fowey Consols 40 45 6400 Gadvanised Iron Co. 10 5½ 6400 Gadvanised Iron Co. 10 5½ 6400 Gen. Mining Co. for Irel. 1½ 2½ 6400 Gen. Mining Co. for Irel. 1½ 12 648 Gongala Tin Mines 1½ 12 648 Gongala Tin Mines 1½ 12 648 Gongala Tin Mines 1½ 12 649 Gongala Tin Mines 1½ 12 640 Gen. Mines 14 15 640 Gen. Mines 15 6	
ľ	4000 Gen. Mining Co.for Irel. 14 24	128 Wheat Harriet 45 50
1	2648 Georgia Tin Mines 12 12 12 12 30	256 Wheal Jane 21 15 256 Wheal Louisa 81 . 8
	128 Goonvrea 4 11	256 Wheal Lonisa
	2444Grambler & St. Anbyn - 10	512 Wheal Mary Ann 5 20
1	100 Great Consols 1000 400 256 Great Callestick Moors 22 25 2560 Great Michell Consols 1‡ 3‡ 256 Great Resugga Moor 11 12	256 Wheal Mary Consols. 40 26 210 Wheal Prospect 4 7 120 Wheal Reeth 41 150 128 Wheal Rose 60 15
	2560 Great Michell Consols 11 31	120 Wheal Reeth 41 150
-	256 Great Resugga Moor 11 12 512 Gt.Wh.Rough Tor Con. 15‡ 18	2048 Wheal Samson \$ 20
	100 Groowinion &	99 Wheal Seton2141000 256 Wheal Sisters 302 17
1	256 Gwinear Consols 7 10	256 Wheal Sisters 304 17
	256 Gwinear Consols 7 10 6000 Heignston Down Con 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 2 4 2 2 2 2 2 4 2	256 Wheal Sophia 51 10 128 Wheal Spearne 10 75 128 Wheal St. Ann 9 15
		128 Wheal St. Ann 9 15
	0000 Hiberman 124 15	260 Wheal Trescoll 1 121
	239 Hobb's Hill 6 3	
	827 Kirkendbrightshire 51 5	256 Wheal Tremayure 35 25
	500 Lady Elizabeth 5 5 2048 Lamherooe Wh. Maria 11 4	256 Wheal Trevenna 3 4
	128 Lelant Consols 90 60	256 Wheal Tremayne
	160 Levant	256 Wheal Vlow (Perrang)
	1000 Llwyn Malees 5	256 Wheal Vlow (Perranz.) 25. 30 184 Wheal Vyvyan
1	256 Lostwithiel Consols 15 15	205 Wheal Williams 6 14
-	5000 Marke Valley 10 22	FORDION MANAGE
1	5000 Mendip Hills 21. 11	5000 Alim Mining Company 141 24
1	256 Lostwithiel Consols 15 5000 Marke Valley 10 2½ 5000 Meriop Hills 2½ 1½ 5000 Meriopethshire Slate 2 & Slate Slab Co 1½ 2	15000 Asterian Mining Co 12
20	Jood Mining Co. of Ireland 7 62	10000 Anglo-Mexican Co 100 2
		12374 Ditto Subscription 25 21
	128 North Fowey Consols 37 - 34 100 North Pool - 45 - 475	6000 Barossa Range
	140 North Roskear 54 150	2000 Ditto Scrip 15 3
	256 North Wh. Abraham 1 1 262 North Wh. Leisure 1 2	12000 Brazilian Imperial 23 . 64
	262 North Wh. Leisure . 14. 2 128 North Wh. Providence 24. 3 000 Northern Coal Co 23 2	8500 Colombian Co. regis 55
		5000 Copiano Mining Co 14
•	000 Pennant	8500 Colombian Co. regis 55 1 5000 Ditto Scrip 55 1 1 5000 Colapo Mining Co 14 24 10000 General Mining Ass'n. 20 138 4000 Kingthal Mining Ass'n. 20 138
	100 Penrhiw 30 65	5000 Kinzigthal Mining Ass. 2 . 4-44 20051 Mexican Company 59 T
1	280 Perran St. George Un. 13 . 20	2000 Merican Company 59 T

. We should feel greatly obliged by agents, or others interested, furnishing us with such corrections for our Share List as see may not have received through our usual chaintel or information—our object being, to present as accurate a list of prices as can be obtained—to procure which, we solicit the aid of correspondents in general.

COAL MARKET, LONDON.

COAL MARKET, LONDON.

FRICE OF COALS PER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Buddle's West Hartley 14—Car's Hartley 14—Davison's West Hartley 14—Dean's Princose 12—Hasting's Hartley 14—Nelson's West Hartley 14—Ponor Princose 12—Hasting's Hartley 14—Nelson's West Hartley 14—North Pontop 11 6—New Tamfield Moor Dute's 13—West Wylam 14—Wall's End Bewicke and Co. 14 6—Heaton 14 6—Northumberland 13—Walker 14—Edem Mais 14 to 14 6—Belmont 14 6—Bell 14 6—Hetton 16—Lambton 14 9—Morrison 14—Russell's Hetton 14 9—Shotton 14 6—Stewart's 15 to 15 3 —Whitwell 13 6—Hartlepool 15—Hartleson's Hartlepool 13 5 to 14 6—Hength Hall 14 3—Thornley 14—Adelaide 14 9—Seymour Tees 14 6—Tees 18 3—Cowpen Hartley 14—Howard's West Hartley Netherton 14 9—Sidney's Hartley 14—Ships at market, 264.

WEDNESDAY.—Bate's West Hartley 14—Bodde's West Hartley 14—Davison's West Hartley 14—Dean's Primrose 12 9—Holywell Main 14 9—Nelson's West Hartley 14—North Perov Hartley 16—Orth Perov Hartley 16—Orth Perov Hartley 16—Orth Perov Hartley 16—Orth Perov Hartley 14—North Perov Hartley 16—Orth Perov Hartley 16—Orth Perov Hartley 16—Orth Perov Hartley 16—Davis Perov Hartley 14—North Perov Hartley 16—Davis Perov Hartley 14—North Perov Hartley 14—North Perov Hartley 14—North Perov Hartley 16—Davis Perov Hartley 14—North Perov Hartley

Hartley 14—Dean's Primroso 12 9—Holywell Main 14 9—Nelson's West Hartley 14—Davison's West Hartley 14—Ora's Reducupit 13—South Pontop 11 6—New Pelton Main 13—New Tanfield 13—North Percy Hartley 14—Ora's Reducupit 13—South Pontop 11 6—Tanfield Moor 14—Infield Moor But's 13—West Wylam 14—Wall's End Bell and Brown 14 3—Bewicke and Co. 14 3—Framwellgate 13 9—Gesforth 14 3—Hedicy 14 8—Harton 14—Hodworth 13—Hiddelf's 14—Eem Main 14 2—Belmont 14 9—Braddyll's Hotton 14 9—Bell 14 9—Hawell 15 9—Hetton 15 6—Kepler 15—Lambton 15—Morrison 14 3—Russell's Hetton 15—Souton 15—Hartlepool 15 3—Hudson's Hartlepool 14 3—Heagh Hall 14 3—Thornley 14 3—Adelaide Tees 14 9—Seymour Tees 14 6—South Durham 14—Tees 15 3—Howard's West Hartley Netherton 14,—Ships at market, 151.

Hartlepool 19 — Seymour Tees 14 6—South Durham 14—Tees 15 3—Howard's West Hartley Netherton 14.—Ships at market, 151.

FRIDAY.—Bate's West Hartley 14 6—Buddle's West Hartley 14 6—Davison's West Hartley 14 6—Holywell Main 16—North Pontop 12 6—New Tanfield Moor Butes 13—Eden Main 16 6 to 15 9—Derwentwater Hartley 14 3—Howard's West Hartley Netherton 14 6.—Wall's End Clarke and Co. 13—Gosforth 15 9—Heaton 14 9—Hedworth 15 6—Killingworth 14 9—Morthumberland 14—Riddell's 14 6—Belmont 16 9—Haswell 16 6—Hetton 16 9—Limbton 16 3—Steward's 16 6—Addialde Tees 16—St. Helen's Tees 14—South Durham 14 9—Tees 16 6.—Ships at market, 54; sold, 36; nasold, 18.

Capt. Simmons, the Government officer, inspected the Dee viaduct structure, on Tuesday, and will make his report to the Board of Trade. The bridge was repeatedly tested by heavy luggage trains, purposely loaded, and moved by two heavy locomotives. The speed at times was as high as 40 miles an hour. The utmost deflection obtained was 8-16th of an inch in the span of 80 ft., and the vibration is said to have been scarcely purceptible.—Railway Chroniele.

GREAT NORTHEN RAILWAY.—That part of the line lying between Lincoln and Buston will soon be completed; the station and hotel at Lincoln are finished. A dispute between the Great Northern and the Grimsby Company, however, has stopped the works of the Lincoln and Rasen branch, much to the regret of the inhabitants.

LATEST CURRENT PRICES OF METALS.

with the total control of the second		LONDO.	No d	MA	RCH 31, 1848.				
And was a 100 mg	£	8. 4	A.	d.		£	8. 4	C 8.	d.
Inox -Bar a Wales for					COPPER-Ord. bottoms	0	0	0 0	m
London		0-8		0	YELLOW METALSHEATHING	0	0-	0 0	
Nail rods	0	0- 9	0	0	Tin-Com. blocks g ent.	0	0	3 10	
Hoop(Staf.)	0	0-10	0		1 home	-	0.1	2 4	
Sheet in a	- 0	0-11	0	0	Refined	0	0	4 9	
		0- 9	10	0	Straits A	2	16	9 14	
Welsh cold-blast?		0.00			Banca	0	4	0 10	0
feundry pig]	- 4	0- 4	10	. 0	Tim-Plates—Ch., IC i, box	,	-		0
Scotch pig b, Clyde	. 9	1 6 9		0	, IX		-		0
Rails, average	0	0- 7	10	0	Coke, IC		4	1 19	. 0
Chairs	0	0 - 6	.0		n IX		4 6	1 0	0
Russian CCND a	0	0 15	0	0	LEAD-Sheet &ton		0 0	1 11	0
DEI	- 0	0-11	U	u	LEAD - Sheet F fon .	0	0-1	9 0	0
Convicti	0	0		•	Pig, refined	0	0-1	10	. 0
notinon e		0 10	-		eommon	0	0-1	7 5	0
Consider on the sect	U	013	0	0	" Spanish, in bd.	0	0-1	7 0	. 0
Swedish a on the spot	.0	0-11	10	0	Red	0	0-1	9 10	
, steel, fagt.	0	0-16	0	0	Dry White	0	0-2	4 0	. 0
, Kegse	13	10-14	0	0	Shot (Patent)	0	0-2	0 10	0
JOPPER-1110/	0	0-87	10	0	SPELTER-(Cake) on spot	0	0-13	3 0	. 0
Tough cake	0	0-88	10	0	of for arrival 1	4	15-1	4 10	
rest selected	0	091	10	:0	Zino-(Sheet) in export.	0	0- 9	1 0	- 0
Ordin. sheets, 16	. 0	0 0	0	10	QUICKSTLYERS	0	0	0 4	6

SPELTEB is again lower, having been sold this week at 13% on the spot, and at 12% los, for arrivals—these prices have induced some parties to purchase.—Quicksilves is reduced 6d. per lb. With these exceptions we have no alterations to report in prices—but there is scarcely any business doing.

GLASGOW PIG-IRON TRADE, MARCH 30.—We have had rather a smaller amount of business transacted this week in pig-iron than for the last few weeks. There has not been the same disposition shown amongst holders to realise, and as the demands continues about an average, the price of the article is well maintained. No. 3 is still scarce, and in good demand; 1003 tons No. 1 were sold to day at 43s., prompt cash; mixed Nos. may be quoted at 43s. to 43s. 6d. cash, according to time of payment.

and the second		AD o	- The Part of the	1471.00 1471.00 14.00 16	Property (114, 2488
Mines.	Ton		Price.	VIIV	Purchasers.
enryhymblas	46	******	£10 1	6	Mather & Co.
ditto	46			0	J. P. Eyton.
Vestminster	50	** ** ** **		0	Walker, Parker, & Co
ditto	12		9 8	0	Mather and Co.
amalea		** ** ** **		6	Newton, Keates, & Co
ditto	10		9 15	6	J. P. Eyton.
selgrave	30		9 2	0	Mather & Co.
roniownog		** ** ** **	9 11	0	Walker, Parker, & Co
lalkin Hall	61		8 15	0	Mather & Co.
lanbadam	04	** ** ** **	8 10	6	Newton, Keates, & Co
MAIN CHARLES	** ** * * * * * * * * * * * * * * * *		N 7	0	Walker, Parker, & Co
eel	80		9 12	6	ditto
ant Dù	Total torre	******	8 10	0	Mather & Co.
The state of the s	Total tons			366,	Taken and the second second
	So	ld at the	Mine.	A 15 15	N THE OWN AS THE WAY
ast Wheal Rose (Cargi	11)106		£14 11	0	B. Somers.
to Your and a state of	Stale	at Above	alarith		7 5.29
ast Logylas	60		€ 9 15	0	Walker, Parker, & Co
ditto	60		9 15	0	ditto
				0	unto
allinaton	100	ld in Lon	don.		THE STATE OF STREET
allington				0	B. Somers.
	S	old at Ba	gilt.		
lachynlleth	55	*******	£9 5	0	Walker, Parker, & Go
	BL	ACK 7	IN.	-	A CONTRACTOR OF THE PARTY OF TH
	Sold at	Truro, A	farch 28.		
Mine,	T. c. q. lb.	Price	per ton.	P	urchasers.
heal Beam Mine	. 0 7 2 0	#41	0 6	Caleni	ck Smelting Company.
ditto	. 0 2 2 13	16	0 0		ditto.
10	W	87.45		-	The Mark The Con-
Mines.	Tons.	Am	iount.		Purchasers.
irch Tor		£39	10 0	Daubu	z; Calenick; Williams.
harlestown	75	• • • 40	12 6	Daubu	g and Williams.
ditto	31	41	0 0	Caleni	
ditto		34	0 0		ditto
reat Polgooth	12	43	12 6	Ditto a	and Williams.

		THE VALO.	20,100	
Sampled March	15, and Sold	at Pearce's Hotel,	Truro,	March 30, 1848.

Mines.	Tons.	Pri		Mines. Tons.	Price.
Consolidated	108		0	Par Consols 85	. £5 13 €
ditto	90		0	ditto 71	. 5 9 6
ditto	86	7 8	0	Perran St. George 59	. 2 6 6
ditto	85	4 18	6	ditto 51	
ditto	81	4 0	6	ditto 46	
ditto	80	7 8	0	ditto 44	
ditto	67	6 10	0	ditto 30	
ditto	62	3 13	0	ditto 29	
ditto	69	5 1	0.	Allen on	B-110-11-4
ditto	55	1 17	6	Dolonna os	
ditto	. 54	2 -0	o o	****	
ditto	53	5 14	. 0		
ditto	44	7 7	6	Treviskey 84	. 5 18 0
ditto	39	4 6	0	ditto 75	
ditto	00	4 7		ditto 69	
		9 10	0	ditto 61	
ditto		3 19	0	Trethellan 70	2 6 0
United Mines	106	6 3	6	ditto 46	. 5 17 0
ditto	104	2 18	0	ditto 38	1 16 6
ditto	103	5 8	G	ditto 29	2 17 6
ditto	90	2 14	0	St. Aubyn 74	
ditto	81	3 1	0	ditto 4 10 50	6 5 6
ditto	. 80	3 8	0	Grambler 43	
ditto	68	6 6	0	Treleigh Consols 52	
ditto	67	4 1	0	ditto 49	4 11 6
ditto	58	3 10	6 .	ditto - 45	
ditto	51	3 19	0	Wh. Sisters 70	5 7 0
ditto	41	4 12	0 .	ditto 65	
ditto	33	1 18	6	Wh. Ellen 69	3 12 0
Tresavean	100	9 11	0		5 10 6
ditto	69	4 13	0		7 16 6
ditto	57	2 3	6	Andrew & Nangiles 63	4 11 6
ditto	51	9 9	6	ditto 30	4 1 6
ditto	50		0	ditto 7	h 1 0
ditto	49	0 /	6	Wh. Clifford 78	3 10 6
		3 13		ditto 14	1 12 0
ditto	47	1,6	.0	Wh. Mary Consols 64	5 3 6
ditto	45	5 11	0	Wh. Prudence 13	3 8 6
South Caradon	108	4 14	0	ditto 14	1 13 0
ditto	81	7 6	6	Barrier 45	2 15 6
ditto	74	7 12	0	Wh. Agar (East) 22	5.12 B
ditto	60	6 4	0 .	Rose in-Vale Cons. 15	3.0 0
ditto :	34	4 10	0	Gonhmena 14	7 14 0
Par Consels	98	7 . 1	6	Charlestown United 13:	11-9 0
ditto	93	6 13	0	Ting Tang 12	2 7 0
The state of the s	A TEST	mo	PAT TH	Aprion Hill of	1 1 100

46 4 4 1		T			PRODUCE.	40.000	1/2		183
Consolidated 1009	£	5364	4	. 6	Wh. Ellen	119	£ 717	14	10
United Mines 8#2	****	3634	15	-0	Andrew& Nangiles	1000	417	16	
Tresavean 468	****	1466	12	6	Wh. Clifford	92			
South Caradon 357	** **	2188	6	6	Wh. Mary Consols	64			0
Par Consols 347		2134	3	0	Wh. Prudence	87	170		
PerranSt.George 323	7	1223	4	6	Barrier	45	124	17	6
Treviskey 289		1417	10	0	Rose-in-ValeCons.	15	45	10	0
Trethellan . : 183		582	16	6	Gonamena	14	107	10	0
Grambler&St.Anb. 167	****	650	11	-6	Charlestown United	13	148		0
Treleigh Consols 146		835	11	0	Ting Tang	12	140	11	0
Wh Sisters 195	*****	GON	10	0			28		U

Copper oves for sale on Thursday next, as White's Hestel, Pool.—Mines and Parcels.—North Pool 884—Wheal Seton 729—Tincroft 391—East Wineal Crofty 572—Camborne Vean 536—Deleasth 366—Eoway Consols 361—South Wheal Basset 354—Condarrow 238—South Wheal Francis 168—East Fool 145—Wheal Basset 123—Wheal Mary 85—South Wheal Fortune 68—Laufret Consols 43—Wheal Tryphens 16—Wheal Roce 12—Polgooth 11—West Basset 10—Copper Bottom 8.—Total, 5000 toals.

Copper ores for sale on Thursday week, at Andraw's Hotel, Redraith—Hines and Parcels.—Cars Brea 1091—Par Consols 470—Wheal Proper 300—Wheal Trentagne 107—Wheal Roce 19—Corest Work 64—Wellington Mines 28—Tenow Consols 48—Pensirathal United Mines 5.—Total quantity for sale, 2493 tons.

NOTICES TO CORRESPONDENTS

rable delay, if

Also, to avoid trouble, Post-Office Onders shoul Balmon Manuell, as acting for the proprietors.

pressure of mining intelligence, at a late hour, compels us to postpone several article intended for publication; also the letter of our Paris correspondent, and several leader Intermed for publication; also the letter of our Paris correspondent, and several leaders.

CANN BERA MINING COMPANY.—In our report of the meeting of shareholders, held on Friday the 34th March, in our last Number, an error crept in. We stated, that out of the 20,000£ dividend in 12 months, 2000£, was anticipated in the previous annual amount: such, we are informed, was not the fact—20,000£ ware paid between March and March, the last 2000£ of which will appear in the accounts of 1848.

GREAT WILLS FREDERICK MISE.—Having received several communications from parties, with reference to certain proceedings connected with this mine, we have only, in noticing them, or by way of reply, to state, that we have received notice of action from Mr. W. S. Thomas—that an appearance has been entered, and we await the issue. Under these circumstances, we shall stand excused from entering into the merits or demerits of the question, while our columns are at all times open to any communications treating on the subject.

ing on the subject.

Fe are compelled to postpone Dr. Ansted's Lecture; also one on the Composition of Coal
Gas and its Combustion, delivered by Dr. Hofmann, at the Royal College of Chemistry,
on Monday last—both of which will appear in our next.

The Minime Journat is published at about Eleven o'clock on Saturday morning, at the
office, 36, Fleet-street, and can be obtained, before Tweive, of all news agents, at the
Royal Exchange, and other parts of London.

THE MINING JOURNAL Railway and Commercial Sagette.

LONDON, APRIL 1, 1848.

The first quarter of the year 1848 having now expired, we, as usual, present a summary of the sales of copper ores in Cornwall and at Swansea. At the several sales by public ticketing in the county, there have been sold 35,662 tons, producing 195,2121.15s. 6d.—ahowing a reduction from the produce of the last quarter of 5287 tons, and in money 25,1891.—the latter having been 40,949 tons, and 220,4011.15s. 6d. The average produce has been, in both cases, the same (8½); while the standard increased from 961.18s. 6d. to 971.13d., and the average price from 51.10s. 6d. to 51.11s. The actual falling off in the produce will be seen to be upwards of 12½ per cent. The above quantity of copper ores were purchased by the several smelting-houses, during the quarter, as follows—viz:

A CONTRACTOR OF THE PARTY OF TH	Tons.		Amount.		
Mines Royal	. 2076	*******	£9,579	9	.6
English Copper Company	. 763		3,244	17	10
Vivian and Sons	7847		43,560	10	7
Freeman and Co	5542		28,959	. 1	10
Grenfell and Sons	. 5387	** ** ** **	23,852	14	7
Crown Company	. 284		1,531	6	2
Sims, Willyams, and Co	. 5498		29,137	14	9
Williams, Foster, and Co	8265		55,347	0	3
And the second s			-		-
Total	35.669	£	195,212	15	6

The total amount of ores sold at Swansea in the past quarter have been 10,363 tons, and realising 148,502l. 5s.—being again a reduction on the quarter of 2115 tons, and in money 15,344l. 3s. 6d., or nearly 15 per cent.; the quantity in the quarter ended Christmas last having been 12,478 tons, and in money 163,846l. 8s. 6d. The ores were purchased by the different companies as follows—viz.:

English Company 207 £3,898 18 Freeman and Co. 268 3,756 15 Grenfell and Sons 1352 19,357 13	unt.	
	0	
C	6	
Grentell and Sons	6	
Sims, Willyams, and Co 1298 19,532 4	9	
Vivian and Sons 34,550 11	6	
Williams, Foster, and Co	9	
Mines Royal 12,864 13	0	
Messrs. Schneider 1,458 12		
Benj. Smith 8,065 17	6	
	-	

The copper ores sold during the quarter, being the produce of the different foreign mines mentioned below, are as follow—viz.:

	Tons.	Amount.		
Cobre	3689	£49,496 16	6	
Chili	849	30,147 11	0	
Australia	1147	29,868 4	0	
Cuba	1647	17,699 13	0	
Copiano	74	1,507 15	0	
New Zealand	42	320 5	0	
Santingo	12	212 2	0	
B 200 10 10 10 10 10 10 10 10 10 10 10 10 1	-		_	
Total	7460	£128,252 6	6	

The following is a list of ores sold from the Irish copper mines :-

C In	Tons.	Amount	
Knockmahon	. 1101	£6532 3	0
Berehaven	. 904	6124 13	0
Holyford	. 231	4416 18	0
Ballymurtagh	. 265	. 767 19	0
Lackamore	. 61	458 6	0
Cronebang	. 54	216 18	0
Tigrony	. 3	62 2	0
AND AND THE CONTRACTOR OF THE PARTY OF THE P	-	-	-
Total	9619	£:8.579 19	0

We must defer until our next, the usual list of the Cornish copper mines, with their produce and amount of money returned.

The Cost-Book System is a subject which has been so trequently treated upon in our columns, and the several points raised, from time to time, by correspondents, met by explanatory remarks, that it would appear hardly necessary again to revert to the subject, but that we find some of the most simple rules misunderstood and confounded, even by parties. Then, we should naturally have apposed best acquainted with its principles; while the variety of creating subjects the only in the contract the only included the contract th of questions submitted tend only to confuse—the opinion given being in accordance with the nature or mode in which the question is propounded. We are induced to give insertion in another column to a series of resolutions which we have copied from a cost-book to a series of resolutions which we have copied from a cost-book, which appear to embody the main features presented by the Cost-Book System, and which, as we are given to understand, are found to work well, while the equity pervading the whole would appear to us to be strictly in accordance with the principles on which the system is founded.

To the Journal of the 18th inst. a correspondent puts the question, whether it is not an universal custom for a shareholder to have a vote for each share held by him—to which a note was appended, stating, that there were instances wherehy the number of votes possessed.

that there were instances whereby the number of votes possessed by the several adventurers, in accordance with the number of shares they might hold, was a matter of arrangement; as five shares might represent one vote; ten shares, two votes; and so on. We may here observe, that the remarks appended to the letter referred to, are doubtless calculated to mislead parties not conversant with the Cost-Book System; and, at the same time, would appear at variance with the principles we have ever laid down: a word or

the Cost-Book System; and, at the same time, would appear at variance with the principles we have ever laid down: a word or two, however, will set the matter right; and this we feel called upon to do, as the error was only noticed when too late.

We regret any expression on a subject of so much importance should be construed in any way calculated to mislead; inasmuch that the fact is notorious—every share represents a vote; and, hence, property is fairly represented. Having had our attention drawn to the subject by more than one out-adventurer, as well as by parties more immediately located in the vicinity of the mines, we will at once quote a letter before us, which is so clearly written, and so well defines the principle, as to convey all that we could our selves express:—"A mine, when divided into its number of shares, and worked upon the Cost-Book System, represents an equal number of votes; each share represents one vote, and it matters not in what number, or by whom such shares or votes (for the terms are, in this respect, synonimous) are held. Resolutions at mine meetings are not carried by a show of hands, but by a majority of shares; indeed, were it otherwise, it can readily be conceived that nine-tents of the interest in the mine might be held by the minority, so

far as the number of individuals was concerned; and hence, a power would be vested in the holders of one tenth to rule and govern the affairs of the company in which they possessed comparatively so insignificant an interest." To all this we accord our assent; and, insignificant an interest." To all this we accord our assent; and, indeed, it would be frightful and destructive of that confidence which is based on the Cost-Book system, were it otherwise; property is, we repeat, as it ever should be—so far as relates to the working of our mines in Cornwall and Devon—fairly represented. Every individual share carrying with it its vote. While on the subject, it behoves us to notice a letter which appeared in our last, from "A Subscriber," and headed "East Wheal Friendship, and East Birch Tor Mining Companies;" and here we must needs quote our correspondent's letter that we may not be misunderstood; and, moreover, that he may have fair play. He says,—"A short time since, the 'East Wheal Friendship Mining Company,' published its prospectus in extenso, and therein declared, for the information of the desired proprietary, that, under the Cost-Book Principle, a shareholder who prietary, that, under the Cost-Book Principle, a shareholder who availed himself of his liberty to withdraw from the mine, could demand his portion of the value of the property, and all machinery, sand his portion of the value of the property, and all machinery, &c., by giving notice to the purser or secretary to that effect. I intended (says our correspondent) at the time to have requested your exposure of this fallacy, but it passed from my mind." Our correspondent thus confidues:—"Now, however, I find by your last Number, that the 'East Birch Tor Mining Company' repeats this monstrous absurdity. Surely (says he) this is a way to prevent rather than induce capitalists and others to explave, in mining

this monstrous absurdity. Surely (says he) this is a way to prevent, rather than induce, capitalists and others to embark in mining undertakings; for who would submit to the power of a minority to rule the majority? Even worse than this would be the effect. Any individual shareholder, according to the opinion of the executives, might compel a company to cease operations, or sell the property, that he might have his bortion of everything."

Our correspondent then goes on to say, that the "principle" carries absurdity on the face of it, and which is wholly at variance with the cost-book. He then tells us, for the information of "the wise men of the East" (he most certainly having no claim to be one of the "West,") that in determining the liability at any one time, the adventurer not only forfeit all sums of money he may previously have paid, but also relinquish a "all claim to anything which might accrue to him;" and, in con usion, says, "it is a great pity they (the adventurers) do not of ain some correct information on the subject."

Subject."

Now for a word to our prespondent, whose letter we have quoted at so much length, as almost to preclude remark, or comment; yet we cannot allow ment to be passed by unnoticed, or it might be assumed, we were qually as innocent as himself. That he wrote the letter with a well-disposed intent no doubt can, for a moment, arise; but that he not versed in the matter at issue, or the question on which he presses to give an opinion, must be apparent to all conversant with mining, and which can only be attributed to the absence of opport mity being afforded our correspondent, of acquiring correct information, or knowledge. Let us, then, say a something on the subject mooted, and we pledge ourselves to the correctness of the position we assume, as being supported by every practical mining agent, and those who have participated in every practical mining agent, and those who have participated in the advantages we claim for the Cost-book System, which, it is clear, our correspondent does not comprehend, and who possibly may be a scripholder, but not a bonâ fide adventurer. Thus is it may be a scripholder, but not a bona ide adventurer. Thus is it—
Any adventurer in a mine can relinquish his shares, on giving notice to the purser of such his intention, paying up his proportion of
all costs, or obligations, entered into, up to the end of the month,
or other period, when the meeting takes place—he being entitled to
claim and receive his due proportion of all ores, moneys in banker's
hands, valuator machinery, &c., as may be determined, on valuation being made of the same, such being done by mutual agreement,
or understanding, and the money so coming to him being paid
within a given period. We have here laid down the law, if the
term may be used, as applying to the Cost-book System, and which within a given period. We have here laid down the law, if the term may be used, as applying to the Cost-book System, and which is not only generally understood, but universally acknowledged. Our correspondent would lead us to suppose, that because one or two adventurers should withdraw, then, that the mine must be abandoned; but such is not the case. How is it, for instance, with the several mines, where shares may have been forfeited, or thrown up, that the number is reduced, whereby, as a matter of course the interest of the respective parties continuing to work the thrown up, that the number is reduced, whereby, as a matter of course, the interest of the respective parties continuing to work the mine becomes increased? The principle, the equity of the Costbook System, is, as we have already stated, simply this:—A party having no longer any opinion, or confidence, in the undertaking, expresses his wish to withdraw, upon paying his portion of costs incurred, and, at the san time, he claims his like proportion of the materials, ores, and cash in hand. This is assented to, and it is then a matter for the consideration of the remaining adventurers, whether that they will carry on the mine at their own risk, and pay to the party seceding his proportion of the value of the property on whether that they will carry on the mine at their own risk, and pay to the party seceding his proportion of the value of the property on the mine, or whether they shall act upon his movement, and at once abandon the mine? This is with themselves, and is acted upon according to circumstances. We have already carried this article to a far greater length than was intended, but we would say to "One and All"—adhere to the Cost-book System—endeavour to comprehend it; for indeed, those must be dolts, who, if they give the question any consideration, would have to admit their ignorance; and such being once understood and observed, we can only express our confidence. being once understood and observed, we can only express our confidence that our correspondents will not have cause to regret they embarked in mining undertakings, or that they confined their pursuits to home enterprise, rather than to the employment of capital in

We call special attention to the report of the meeting of the share-holders of the Tin Vale Mining Company, which will be found in another column. We do so as an example to undertakings, which have for their object the development of the mineral resources of this country. At this moment, when nearly all the world is in a state of excitement, and business-abroad almost wholly suspended, it is indeed necessary that every effort should be made to render our wants independent of foreign assistance. The Tin Vale Company, with a small capital, is in a fair way to produce great results. The expenditure for actual working has only been 450L; yet, in four months, they have tin to the value of 250L to 300L. This is a favourable prospect indeed for the shareholders, and a just reward to the enterprise displayed by the company. It is another instance of the fallacy of the argument of those unacquainted with mining, that companies with small capital are of no standing. It has been so companies with small capital are of no standing. It has been so said of Tin Vale, because there are only 1000 shares of 2l. each. The very reverse is the fact. Wheal Maria (the Great Devon Consols) started with 1000 shares of 1l., and has paid as much as 76l. per share per annum; Goginan with 100 shares of 5l., has divided 90l. per share per annum. We could multiply instances to a vided 90l. per share per annum. vided 90. per share per annum. We could multiply instances to a great extent. To the mining interests they are well known, as well as the fact that, where large sums have been invested, the returns generally have not been relatively so remunerative. Our present business is with the general reader—there being evidently a strong feeling existing to support and assist home mining; and it is, therefore, necessary to remove the erroneous impression. In a mining article, inserted a short time since, in the "City Article" of the Morning Post, it was justly remarked that—

"The statements now given farmish proof that the shares, on which the smallest ame has been paid, command generally—ulways relatively—the highest premium; with the reverse sense, the shares on which large sums have been paid up, have sustained haviest depreciation; but this is a principle so well known, in competition with all mindertakings, that it scarcely requires remark."

It has been a commonly received opinion, that the result attending mining enterphase been prejudicial to those engaged. That such remarks may be justly applied to der. akings foreign quarties, we do not done; but the foregoing statements show to

and incapability, or ruthlessness, on the part and to superintand. Mining affairs, however, are now totally change of administration, which has distinguished some mining comparts as anganised and defined principle of control and limitation of reper and rigid observance of the provisions of the cost-book; while the hat may be termed mining engineering, is even still more marked to the angerous and the control of the control

place to an organised and defined principle of control and limitation of remeasubility, by a proper and rigid observance of the provisions of the cost-book; while the improvement in what may be termed mining engineering, is even still more marked."

"The annusary, with respect to the foregoing tables, shows that, of the total number of associations—namely, 150—there are 98 at a premium, many of considerable amount, 9 at par, and 38 at a discount; the whale being divided into 267,048 shares. The capital embark de collectively is 2,623,406;, and the marked value being 3,776,4324, after allowing for a depreciation which 58 companies show, amounting to 740,7074, it follows that the aggregate increase is 1,144,0526, or equal to 45 per cant, on the capital embarked. In a former article, we drew attention to the fact, that those who had advanced their money to carry on mining works in foreign countries, to the detriment of British interests, were generally total leasers, and urged the impropriety, in a mational, as well as in an individual, points of view, of such proceeding; but we cartainly were not passpared to find that the success which had attended, in the aggregate, home undertakings, for the procuration of the same articles of commerce, had been no signal as is now demonstrated; or that the confusion of the preceding of the proceeding the proceeding the proceeding the proceeding of the procuration of the general opinion, with reference to mining adventures, was so complete. We are glad to find the reality to be as represented, for it is another, and very convincing proof that, where British capital is embarked in home enterprise, under proper and coonnomical management, the result is generally beneficial, in some instances to an extraordinary degree, to these concerned. It is only a national spirit, which ought to be carried out in every instance of trade and commerce. There is not one article necessary for the purposes of this empire which cannot be supplied from within our own shores; and, containing the pro

The unexpected and lamented decease, a short time since, of the Marquis or Burrs, will have transferred the holding of very extenand valuable estates in the principality of Wales, to new hands, under trust for the surviving Marquis, who is, we believe, a very young minor. We are far from intending to insinuate that the late Marquis was not, in the largest sense of the words, a kind and considerate landlord; but the circumstance, that his great property will be administered by trustees for some time to come, and that the responsibilities resting on the entailed parts of the estate, are known to be lighter than often happens on the transmission of lands and real property to heirs-at-law, we do not utter an unreasonable desire, when we say, that with others we should hope, in respect of new leases, which in many cases will be necessary under the new trust, that the terms may partake of every possible degree of liberality, on the part of the lessor. It is not a time in which the great heritors, the territorial lords, should be found driving hard bargains, with those who are disposed, under covenant, to devote their capital and their skilled labour, to enhance the fruitfulness and the value of their estates. In particular, we hope it will be in the power of the trustees, to find a mezzio termini, by which the great Dowlais estate may be re-conveyed to the old lessees, and that great property kept open and active, to the comfort and profit of thousands, who are vitally interested in its continuation and success. The unexpected and lamented decease, a short time since, of the

It is with much gratification we refer to a report, which appears in another column, of the proceedings at a meeting of the Metal Trades' Pension Society. The establishment of institutions of this nature, as connected with the various professions, or trades, amongst which we are proud in referring to that of the Printers' Pension Society, is, we may say, becoming universal. The present, however, is one of late date, it being only in its fifth year; and, although under the sanction and patronage of several highly-influential and respected parties connected with the iron trade, has not met with that full support which it so well deserves. When we conmet with that full support which it so well deserves. When we consider the importance to be attached to the iron trade alone—the sider the importance to be attached to the iron trade alone—the hundreds of thousands of persons employed—the millions of capital embarked—we confess it appears to us "passing strange," that the society should not be in a position to boast of the support and patronage of all connected with our metallurgical interests. It is true, that the subscriptions for the past year have exceeded that of the two previous years; but such is rather attributable to the exertions of one or two gentlemen, than to the willingness displayed on the part of the trade, to render aid to those who, in their old age, may require it or to those widows, who, having lost their support are in the part of the trade, to render aid to those who, in their old age, may require it, or to those widows, who, having lost their support, are in need. The report presented at the meeting—of which we have only space for an abstract—will, we feel assured, be read with interest; and as the anniversary dinner comes off on the 26th inst., at the London Tavern, when the Londo Mayon will preside, we trust it is necessary to advert thereto, satisfied that the institution only requires to be known, to secure the aid of all associated with the rade and manufacture of metals.

THE COST-BOOK SYSTEM.

The following resolutions, which we copy from a cost-book now before us, will be found to embrace the principal points to which reference is

The following resolutions, which we copy from a cost-most now health is, will be found to embrace the principal points to which reference is made in another column:—

This mine is hereby declared to be divided into equal parts, or shares, and held respectively by the several parties whose names are subscribed herounto.

The system of management, and mode of carrying on the operations of the mine, and all matters attendum thereon, shall be enforced and carried out under the system generally known as the Cost-book System, and referred to in the Act Victoria 7 and 8, capallo, clause 63, subject to the following, and any other special minute, or regulation, that may hereafter be made for the internal government of the affairs of the mine, not inconsistent with the general management under the Cost-book System.

1. That the accounts be made up monthly, and be discharged by the purser, or agent employed for that purpose, who shall enter, or cause to be entered, the monthly cost-sheet, in a book to be kept for that purpose, to be denominated the "cost-book," which this book is understood to be.

2. That a meeting of the adventurers shall be held at the mine, or at some convenient place, to be appointed from time to time, at least once in every two months, when the accounts of the preceding two months, with the bahance, and all matters appertaining to the financial aftairs of the coupany, shall be submitted, and minutes of the same antered into the cost-book, and signed by the respective adventurers presset. That a list of shareholders, or adventurers, shall also be prepared, and entered in the cost-book, as signed by the respective adventurers presset. That a list of shareholders, or adventurers, and all matters and reversity made.

such several meetings, and a successor successor and approval of the account viously made.

3. That at all such meetings, upon the inspection and approval of the account vouchers, the adventurers present shall have full power to make any call, or calls, a may be necessary for the prosecution of the mine, so that the amount so called dockeced the sum estimated for the cost of the succeeding two months, in addition to large off any engagements, or liabilities, which may at the time exist, and may deep invision, of any surplus profit which may arise from working the mine.

4. That at all such meetings, the adventurous present shall have full power to apprenence, any agent, or agents, and to determine the rate of payment for all

dividend, or division, of any surplus profit which may arise from working the mine.

4. That at all such meetings, the adventurers present shall have full power to appoint or remove, any agent, or agents, and to determine the rate of payment for services. rendered.

5. That all meetings shall be called by circular, addressed, by post, to the several shareholders, or adventurers, giving, at least, seven days notice of the intended meeting; and that the same be signed by the purser, or his representative, or such party as the adventurers shall from time to time appoint.

6. That at the meetings so held, the adventurers shall, if they think fit, appoint from time to time a committee of the adventurers, or payment and the management of the arbitrary of the mine, and to communicate with the purser, captain, or other agents, on the subject thereof; but the powers of such committee shall not extend beyond the period of two months, although the members of such committee will be eligible to be re-elected, or may be removed, and other persons appointed in their room.

7. That any meeting may adjount from time to time, as may be deemed expedient; but that it be imperative on the purser, or other agent, only appointed, to convene a meeting, at least once in every two months.

8. That at all meetings snea adventurers shall have one vote in respect of every single-share held by him; and in respect of which all calls then due shall have been paid on; and that a majority of votes of those present in person, or by proxy, be binding on the adventurers, whether present or absent.

9. That absent adventurers be entitled to vote by proxy—they deposing their powers to a co-adventurers, whether present or absent.

9. That absent adventurers to continue to a co-adventurer, and that it shall be understood the proxy be somined to the specime meeting named, unless otherwise directly expressed.

10. That all transfers, or assignments, or shares be entered in the cost-book, and signed by the respective parties; but, in case of a transfer made by a separate paper, or instructions given to the pursor, or other agent, by letter, such letter must bear the post-mark on the sheet authorising the transfer, and not be enclosed in an acvelone—and the original transfer shall be deposited with the pursor, or other agent, and be by him entered in the cost-book.

11. That the captain, or residont agent, make a report on the operations at the mind, at least once a fortnight, or more frequently, if deemed desirable, and that such report beopen at all times to the inspection of the adventurer, or againstion to the pursor, or other appointed agent.

13. That a copy of the resolutions and abstract of accounts shall be transmitted to every adventurer, within saven days after the needing shall have been held.

14. That if any call remain unpaid for the space of it 4 days after the time fixed for the same, the share in respect whereof it is the pursor, as any subsequent meet-

in saven days after the meeting.

call remain unpidd for the space of 14 days after the mans, the share in respect whereaf it is das may, at any authors, be declared to be forfeited absolutely—such meeting, determined the object of such meeting, deventurer shall be at liberty to withdraw from the under pursor of such intention, and paying up his proportion of one of the sterest in the case of the interest in the case o 14. That it any case, the abare in respect wang of the adventurers, he dealared to be fortion of the convened by circular, stating the object of sur 15. That any adventurer shall be at liberty ing notice to the pursue of such intestion, a liabilities; and, further, that he be entitled cash in band, dec., up to the period of such as 16. That the pursuer shall, when required is dertaking, convene a special general meeting dertaking, convene a special general meeting

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TH duct of No day l remer the T of the expre 100 sl duals chair Mr. R

among the ge protec Con

IRON, HARDWARE, AND METAL TRADES' PENSION SOCIETY. The annual general meeting of this institution was held at the London Taday, the 22d instant.

H. L. TAYLOR, Esq., in the chair.

H. L. TAYLOR, Esq., in the chair.

The minutes of the preceding meeting, and the usual formalities, having been carried out, the Hon. Secretaray (Mr. Hawkins) read the report and accounts.—The report presented to the meeting entered at length into the objects of the institution, its steady progress, and the increasing interest manifested in its success. The following brief epitome will best convey the sentiments expressed. After adverting to the modified change which had taken place in the constitution of the society, "by which the circle of its benevolence was greatly enlarged," the committee congratulate the subscribers on the benefits arising from such alteration, and the increasing subscriptions, thereby affording the most conclusive evidence of the estimation in which the society is held by the trade; while the committee observe, "that there is now good ground for hoping that it will, ere long, attain that place among our charitable institutions, which it is supported may rightfully demand for it." From the financial report, it appears that the receipts for the past year had exceeded any two of the most prospecous years which had preceded fit; the receipts for the several years, since the formation of the institution, having been—1842, 3461. 10s.; 1843, 4121. 8s.; 1844, 5821. 6s.; 1846, 4081. 6s.; 1846, 6241. 9s.; 1847, 10161. Ils. 6d.

The report refers with pleasure to the increased exertions and assistance.

13

the several years, since the formation of the institution, having been—1842, 3402. 10s.; 1843, 4122. 8s.; 1844, 6527. 6s.; 1845, 4087. 6s.; 1848, 21010. The report refers with pleasure to the increased exertions and assistance afforded by many of the original subscribers, who had kindly increased their subscriptions; amongst whom, although not personally alluded to in the report, may be included Mr. Gould, whose exertions have produced no less than 1401 during the past 12 months—while those obtained by another member of the committee exceed 401.—thus, together, making more than one-half the amount received, whether by subscriptions, or donations, in the preceding year. The funded property of the society has been increased within the last year, by the purchase of 12501. stock, in addition to 15001. before held. The pensioners, during the past year, were only four in number, to whom 401. 19s, had been paid; but the number was at the late election, in November last, increased to nine; and the amount payable will thus be increased—the grants for the present, year being assumed at 1401, which is irrespective of what may be required by the additional number of pensioners to be elected in May next.

The committee, in thus adverting to the increase of expenditure, congratulated the subscribers on the pleasing prospects which their financial position placed them in, as affording them the means of carrying out more fully the objects for which the institution was formed—and express their carnest hope and desire that, at the forthcoming festival, which we understood to be fixed for the 26th inst. (when the Lord Mayor will preside), there will be that expression of feeling evinced, which will at once prove the interest taken by the trade in the interests of the society, and the care which the "master" should ever take, and here so pleasingly manifested, as regards the "man." With such aid as the committee contemplate, it is their intention to have two elections annually, and which, we trust, will be with a continued increas

which they possess.

The following is an abstract of the account submitted for the past year:—

Statement of Mecepts and Expenditure,		
By balance from last account£1833	7	2
Receipts and donations £598 13 6		
First annual subscription 214 4 0		
Renewal of subscriptions	11	6
Dividends on stock invested, 60%. 8s. 9d.; accounts unpaid, 5% 10s. 6d 65	19	3
Total£2915	17	11
and the second s	-	-

Total ... £2915 17 11

e statement of assets showed—stock in Consols and Reduced 3 per Cents. 25717. 5s. 3d. and in bankers' hands, 1404. 9s. —in all, 27111. 14s. 3d.

The statement of assets showed—stock in Consols and Reduced 3 per Cents. 25717. 5s. 3d.; and in bankers' hands, 140. 9s. —In all, 37117. 14s. 3d.

The CHARISAIN entered, at some length, on the advantages held out by the institution, and the claims it had to support. He felt that the kind aid and services rendered by gentlemen, who had been the early promoters of the society, were such that, while they must be self-congratulatory to themselves, in the consciousness of the rood they had been the means of rendering to others, were, in like manner, acknowledged by all who took an interest in the objects to which their attention was directed. He could not do otherwise than return his thanks, on the part of the society, to Mr. Gould, for the kind and zealous endeavours, attended, as they were, by the most successful results, in advancing the objects in view.

Mr. Gould, in the course of the proceedings, returned thanks for the compliments paid him; at the same time stating, that he had not yet performed one-half the duty he had imposed upon himself, whilst its performance was to him a source of pleasure. He hoped, in the forthcoming year, to be enabled to make an equally favourable report; and would beg to impress on every subscriber, that it was equally in the power of others, as with himself, to promote the interests of the institution. He had put his shoulder to the wheel, and, happily, the exercise of the slight power he possessed, had been attended with beneficial results. Let them remember, they numbered between 400 and 500 subscribers, or supporters of the society. If that each would manifest an interest, and bring in, were it only one or two additional subscribers, the means would be afforded to the committee, whereby they might afford additional aid to the distressed.

Several resolutions were subsequently passed, and some trite, but excellent

would be afforded to the committee, whereby they might afford additional and to the distressed.

Several resolutions were subsequently passed, and some trite, but excellent observations, made by several of the members present. Among the recommendations made, and which were adopted—as altering the rules of the society—was one determining the minimum allowance at 20 guineas per annum, and the maximum, 25 guineas, being equally applicable to male and female pensioners. The usual vote of thanks to the honorary officers, and to the chairman, having been passed, the meeting adjourned.

Non-Liability of Secretaries to Public Companies.—In the City Small Debts Court, on Wednesday last, an action was brought by a poor woman, named Jenkins, against Mr. Allen, the secretary of the Bolivar Mining Company, to recover a balance of 131.8s, on account of wages due to her deceased husband, David Jenkins,—It appeared, that the latter had been in the service of the company at Venezuela, for a length of time, and died at sen, on a voyage to England, in 1842; the planniif held a power of attorney, and continually received money up to that period; but none of the balance due until May last, when defendant paid her 151. on account, and admitted that the full amount was 841.8s.—thus leaving a further balance of 194.8s. The defendant said, he was not hable. The learned Judge (E. Ballock, Esq.) said, that something beyond the defendant being secretary must be shown to render him liable; it must be shown to render him liable; it must be shown, that he was a shareholder, or otherwise connected with the company. Mr. Duncan, for defendant, said, the plaintiff appeared the only responsible party in England, and, at all events, he was secretary when he paid the 161.—he was, perhaps, secretary, trustee, and company, in his own person. The learned judge said, the case had not been made out, and he was sorry that the plaintiff must be non-suited. Mr. Duncan hoped the judge would remit the costs—the plaintiff, an old woman, was in such a state of pennery, as to be totally unable to pay. The judge said, he had already gone would remit the costs—the plantini, an old woman, was in such a state of penury, as to be totally unable to pay. The judge said, he had already gone out of the usual way, by granting the summons free, and plaintiff must be nor-suited. Mr. Dunca, and Mr. Buchanan, solicitor of Basinghall-street, had taken up the case gratuitously, out of compassion to plaintiff.

taken up the case gratuitously, out of compassion to plaintif.

The Navigation Laws.—In order to testify their approbation of the conduct of Mr. James Mather in respect of the Navigation Laws, the shipowners of North and South Shields invited that gentleman to a public dinner on Monday last, at the Golden Lion Hotel, in South Shields. Mr. Mather, it will be remembered, took an active part in arranging the late procession of seamen on the Thames to Westminster, to present a memorial to Government in support of the Navigation Laws, and was the principal organ of the seamen in giving expression to their sentiments at the interview with Sir George Groy. About 100 shipowners and others interested in maritime affairs, comprising individuals of different opinions on matters of general policy, sat down to dinner, the chair being filled by Mr. Robert Anderson, and the vice-chairs by Mr. Clay, Mr. R. H. Bell, and Mr. Robbinson. Mr. Richmond and Mr. Ingham were amongst the company. The speeches were of a complimentary chracter, but the general tone and feeling of the meeting was, of course, strong in favour of protecting the British nucreantile marine.

Commend Mankes.—In consequence of the depressed state of mining, and the

mentary Minnes.—In consequence of the depressed state of mining, and the ral poverty of the country of Corunwall, numerous miners are emigrating to gn parts; and this, notwithstanding the towns and parishes have refused to an emigration fund, to be applied under the direction of the Peor-Commissioners.

EXPERIMENTS ON COAL-OFFICIAL REPORT.—No. IV.

PARK END COALS, LYDNEY.—This coal is known as the Park End. High Delf or Lowry Vein, and is obtained at Park End, near Lydney, in the Forest of Dean. The vein is generally regular, and about 3 ft. thick, and is worked long work,—sein the thin veins of the Staffordshire coal-field. The overlying and subjacent strais are of the usual kind of shale. The dip varies from 6 in. to 2 ft. in 1 yard, or from 1 in 6 to 3 ft. a build have the coal formed the staffordshire coal-field. The overlying and subjacent strais are of the usual kind of shale. The dip varies from 6 in. to 2 ft. in 1 yard, or from 1 in 6 to 3 ft. a build have been coaled from the shipping port, Lydney, is 5 miles. The current price in summer is 10s. per ton, in winter 11s., free on board; and the principal markets are in Ireland; Cornwall, Cheltenham, and the manufacturing districts of Glouesstriahre and Bridgewater. The coal forwarded for investigation had a very bard and compact structure, with a clean and bright fracture, and contained fron pyrites in very large quantities in every long, even when broken down into the smallest sized pieces. It also contained to a considerable extent the white substance found in many of the other samples of coals sent to us. The bedding was very regular and well defined, along the planes of deposition, where we usually found thin layers of a brown, soft, and sliky substance, similar to that seen in other samples. We remarked during the trials that the coal kindled easily, but that it made a very dirty smoky fire, which, at the ordinary working draught, caused immense volumes of dense smoke to appear at the elimney top. When the draught was increased the fire became clearer, but then the rush of smoke swept the loose soot from the flue and chimney, and carried it out in large flakes from the chinney top. If the draught was increased the fire became clearer, but then the rush of smoke swept the loose soot from the flue and chimney, and carried it out in large flakes from the chinney top. If the draught was increased PARK END COALS, LYDNEY.—This coal is known as the Park End. High Delf of

of it quite vitrified. A palpable smell of sulphuretted hydrogen was perceived when the opening of the fire-doors caused the smoke to be driven into the botler-house.

PENTREPOTH COAL.—This coal is generally called the 4-ft. or Church Pit Vein, and is situate near Morriston, in the parish of Llangavelach. The voin runs about 4 ft. thick, but is very irregular, and is, worked at a depth from the surface of about 66 ft. The underlying stratum is soft cliff, with hard cliff over the beds. The dip is 6 in. in 1 yard, or 1 in 6, with a northerly direction. The coal is called free burning, and the current price at the copper-works in Swansea, where alone it appears to be used, is about 44s. per 11 tons, or 4s. per ton. The distance of the coiliery from the port is 34 miles. The sample of this coal sent appeared to have been badly packed, as the coal, being soft, was broken up into very small pieces. It appeared to be of a bright fibrour structure, but not so distinctly so as many other sorts sent up to us for investigation: the reculiar cone-shaped form being, however, well defined. The coal was of a very sort character, containing thin lamines of a very bright coal, somewhat firmer in structure. In the bedding a dark-brown soft mutstance was found, but otherwise the body of the coal was very clean, and free both from pyrites and the white substance so frequently met with. Our remarks during the trials are, that the Pentrepeth coal burn with great difficulty, times a deep free is kept up, and the charge continually thrown on the top of the free in very small quantities at a time. Little or no smoke was given of, and a very high local temperature was produced by the combustion of the large quantity of coal on the fire-barr. The same scintillations were seen throughout the trials, as with the Pontrefelin coal, and also the same hissing noise sent throughout the trials, as with the Pontrefelin coal, and also the same hissing noise sent throughout the trials, as with the Pontrefelin coal, and also the same hissing noise

of the latter was blown away while taking out the flues.

CWMFROOD ROCK VEIN.—This coal is-obtained at Cwmfrood, near to the works of the Varteg Iron Company. The vein rins from 5 to 6 ft. in thickness, is very regular, and is worked in stalls and pillars at a depth of 270 ft. to 300 ft. from the surface. The strata on which it lies are clunch coal, ironstone, clay-coal, five-clay, and forck; the dip being about 34 in. in 1 yard, and in a westerly direction. The colliery is about 15 miles from Newport, the port at which it is shipped. The principal markets are, the Brasils, East and West Indies, Africa, and the Government contracts, in which it was admitted about four years ago. The price cipal markets are, the Brasils, East and West Indies, Africa, and the Government contracts, in which it was admitted about four years ago. The price cipal of the collection of this coal was full, with irridescent plates of iron pyrites and opake white plates on its surface. In the planes of deposition or bedding, a dull brown matter of a soft purverulent character, containing small white particles, was seen in some quantity. The coal was of a much harder structure than most offers that we have had from the South Wales basin, and had a very irregular fracture, though with a great tendency to separate into small rectangular masses. It appeared to be made up of layers of shaly matter, afternating with thin layers of bright coal, and split up easily, though irregularly, along the planes of deposition. Large quantities, boff of pyrites and white substance, were found disseminated through the entire mass, showing themselves chiefly in the jointings. Our remarks during the experiments were only, that the fire appeared dirty and smoky, and that at times large quantities of smoke were seen from the chimney, and that a large proportion of soot was obtained from the flue of a very dark colour, and very light weight ANTHRACITE.—This coal is obtained in the parish of Liangulcke, in the county of

remarks during the experiments were only, that the fire appeared dirty and smoky, and that at times large quantities of smoke were seen from the chimney, and that a large proportion of soot was obtained from the flue of a very dark colour, and very light weight.

ANTHRACITE.—This coal is obtained in the parish of Lianguicke, in the county of Glamorgan, and is known by the name of the Brass Veln of the Cwmllyniell Colliery. It is worked at a depth of 318 ft. from the surface, the galleries extending for some distance to the crop of the veln, the stalls most to the riso being about 236 ft. from the surface. It is called a 4-ft. vein, and is about 3 ft. 10 in. in thickness, and very regular. The dlp in general is from 5 in. to 6 in. In 1 yard, and in a southerly direction; however, there are several pans and saddles which at intervals change the inclination and direction. There is also one extensive fault running nearly morth and south. The overlying and subjacent strata appear to be argillaceous shales, interspersed with other voits of coal, and several veins of fronstone and fire-clay. The character of the coal is anthracite, and it is chiefly used in the hop and malt districts of England; the small coal is used also for lime-burning. The colliery is inbut 16 finites from the port of Swansea, where the current price is 12s. to 13s. per ton for the large, and 5s. to 6s. per fon for the small. There appear to be several other veins of anthracite coal in the neighbourhood. This yoin is liked best for the mult and hop kilns, though a 6-ft. vein, called the Big Vein, and a 3-ft. vein, called the Little Vein, are most preferred for iron-smelting. This Brass Vein takes its name from a vein of payins, à to 8 in. thick, which runs through it a the coal in its immediate vicinity is considered by the collers to be brighter, harder, and purer than any other portion of the vein. This anthracite coal has a bright appearance, with a shining irregular fracture, the bedding is tolerably well defined, with a semi-virecous fractur

CWM NANTY-GROS.—The sample of coal sent up for the trials was of a softish character, the bedding well defined, with lamine of shaly matter, varying in thickness, and of great hardness, with it regular plates of a brownish-black substance of a soft and sliky appearance. The general structure of the coal was very irregular, and large quantities of pyrites of a light colour were perceptible throughout the mass, together with a smaller quantity of a winte substance. Ike that met with in several of the other coals, but not in such large and flat plates. The coal broke up easily into small pieces; it kindled readily, and seemed to coke well upon the dead plate, making rather a smoky fire; which, however, by careful stoking and regulation of draught, did not appear at the chimney top as smoke. No other remarks were made during the experiments.

wyllam's PATENT FUEL.—It is made and sold in blocks, weighing about 12 ibs. each, of an oblong rectangular shape, being 12 × 6 a × 5 a. The charge box, used for taking the economic weight of a cubic foot of coal, not being adapted for these blocks, we took 24 of them, and built them up so a to form a parallelopiped 24 × 20 a × 18 a, and then found it to weigh 329 lbs., which gives 329 5—55°s lbs. per cubic fi. The blocks, when broken, show an irregular fracture, and appear to be composed of small pieces of coal forcibly compressed and cemented together by some bituminous substance, giving off a strong odour of mineral pitch when heat is applied to them. Our remarks during the trial show, that the fire was-readily kindled and steam quickly got up, but much smoke always appeared in the fire, though, with a glow draught, but little was seen from the chimnery. The freelewells up to the fire, and reparates from the same in large flakes, which are readily burnt, leaving a freelestic to the action of the fire. The proportions of chiefers, labes, and chiffsels were to the complete of the fire to the complete of the fire to the complete of the fire to the complete of the fire. The proportions of chiefers, labes, and chiffsels were to the complete of the fire to the fire to the complete of the fire. The proportions of chiefers, labes, and chiffsels were to the complete of the fire to the fire to the complete of the fire to the fire to the fire to the complete of the fire to the f

a very large quantities of such smoke.

In fricks, which have the following so in, which would give 252 5 in, as the mean of 40 blocks, they were found secondario weight of a cubic R, is 69 55 ibs. The moal dust, which is bought at 3s, per ton for this part of Condon is generally very wet, and occupies off to 1 ton. The specimen experimented on along being almost as sold and difficult to break as a luring the experiments that it gives off out little smoke only to the speciment of the condour WARLICH'S PATE were convenient and other accessed in forton. The speciment and difficult to break common drick. It was observed during the experiments that it gives on the to break common drick. It was observed during the experiments that it gives of the little to break identiable time to light, and consequently does not get up the steam so rapidly as a kinds of recomming casts. Experience also phowes that this turb to steam so rapidly as a minute for a steam of the consequently does not get up the steam so rapidly as a binds of recomming casts. Experience also phowes that this turb down to the minute for a steam of the consequently does not get up the steam so rapidly as a minute for the distance of the dis

and choke the draught.

BELL'S FUBL.—This fuel is manufactured at Pert Taibot, near Taibach, Wales, and is formed into blocks, having the following dimensions:—9 × 6 × 5, which would give 270 cubic in., or '04° clible ft., as the contents of each brick. The economic weight of a cubic ft., as deduced from the measurement of the pic, having the following dimensions:—24 × 21 × 18 in., was found to be 65°3 lb. In appearance this tool resembled the specimen sent up for trial by Wylam and Co., except hat the bricks were smaller, and, perhaps, rather more irregular in their texture, some having a compact resinous structure, whilst other easily crambled under the blow of a harmor. It was observed that this tud produced considerable quantities of dense black smoke on lighting the fire, which classed to be evolved as the experiments progressed. This fuel was found highly bitunitoms, and to soften slightly even at the temperature of 212° kh, while at high temperatures if melted readily, and filmients were frequently observed to run through the fire-hard sorting the experiments. At the termination of the experiments considerable quantilise of as had chiker remained; and during their progress, the fire required very great attention and frequent stoking, in order to prevent the choking of the grate from the swelling and melting of the fuel.

GRANGEMOUTH COALS.—This coal is called the main coal, or Carronhall splint,

the swelling and melting of the fuel.

GRANGEMOUTH COALS.—This coal is called the main coal, or Carronhall splint, and is mined in the parish of Bothkennar, half a mile from Grangemouth. It is worked long-wall, at a depth of 270 ft. from the surface, and varies from 3 ft. to 3 ft. 4 in. in thickness. The dip of the bedding is from 1 in 10 to 1 in 12, and the subjacent and overlying strata are composed of shale, falke, or laminated sandstone, coal, fire-clay, and sandstone. The character given of the coal is, "that it is composed chiefly of splint, with a portion of cherry or cabical coal on the top; that it burns with an intense hast without caking; that it is from from sulpinu, and leaves a light-coloured sair." The distance from the port, Grangemouth, is half a mile, and the current price is 9s. per ton. The principal markets are the Baltic and France for steam purposes, and the neighbouring districts for irrenessualting, &c. The sample of coal scort us was from the until coal, south working af the Grangemouth Celliery; it is a coal of a full appearance, and so hard as to require a sledge-hammer to break it up, but splits readily in the direction of the bedding. Across that line the fracture is very irregular; it contains large quantities of a

very hard shaly matter, varying in thickness up to 3 and 4 in., and sometimes interm with thin lamines of bright black coal; the shaly matter burns and teaves a dease whereaftam. The coal in appearance shows out little pyrites, but numerous plates of a substance, of a greater thickness than has been observed in any other coal; it all contains a considerable quantity of the soft friable substance, which gives such a cut silk-like play to reflected light. Our remarks during the trains would show that it in up readily, and, although it makes a smoky fire, still but little smoke was seen escand from the channey, were when the draught was altered at the time of firing. The jocal swells and breaks up well on the fire, but the shaly matter splits and files on application of heat. On the first day of the trials, towards the latter part of the day the sah-pit being opened, a large quantity of flame and smoke was forced down through the continued are substantially and the same of the sahe day, but not on either of the subsequent days. The sames were very small, dust, and of a whiltsh colour, the cinders and clinker were also of the same colour.

[To be continued in next week? Missing Journal.]

[To be continued in next week's Mining Journal.]

Original Correspondence.

SIMS'S IMPROVEMENTS IN THE STEAM-ENGINE.

Sin,-Seeing you have inserted some extracts from the specification or my newly-invented steam-engine, in your last Journal, as they appeared my newly-invented steam-engine, in your last Journal, as they appeared in the Mechanics' Magazine, I would beg to offer some few remarks, contining myself to that part of my invention best adapted for pumping only, and reserve some further explanation of the rotatory engine for some future time. It having been frequently mentioned to me, by many of our mining speculators, how desirable it would be to have some cheap, simple, and portable steam-engine, for the purpose of making trial of bodes, at some few fathoms deep, in order to show whether or not they would warrant any considerable outlay, I would beg to recommend this invention, as being by far the best, for that purpose, of any other plan hitherto invented, as it combines the greatest simplicity, portability, and economy—the expansion principle of working steam is carried out to a greater extent than in any other single cylinder engine, and without the least injury to the pitwork, or any other thing. The building required, exclusive of boiler-work, is little more than is required for a common balance-bob or beam, except a little more than is required for a common balance-bob or beam, except a little shed for the engine-man; and to the spare end of the beam may be attached any balance-that may be required, of course dispensing entirely with a balance-bob. The double pump, or hydraulic, attached, as shown in the engraving, serves to guide the stroke of the engine, fast or slow, as may be required, after the weights are shifted. It also serves as a cataract to regulate the number of strokes of the engine, and may be used as high-pressure, or with condensing works. The weight-boxes would, of course, be loaded as the load of the engine may require; and, in order to save bulk, I would load them with lead. The most important feature in this engine is the carrying out the expansion principle, without injury to the pump-rods, clacks, or, in fact, any other thing, as the stroke of piston is made independent of these things, consequently they receive no concussion. C in the Mechanics' Magazine, I would beg to offer some few remarks, con-

IMPROVEMENTS IN MINING MACHINERY.

INITROVEMENTS IN MINING MACHINERI.

Sir,—I would beg to inform Mr. Davies, of the Talargoch Mines, that I have not made a trial of the pumps with water-pressure, to supersede the use of flat or horizontal rods; but I consider the thing is so exceedingly simple, and is so nearly allied to the hydraulic, or water-pressure, engine, that there can be no doubt of its doing well.

James Sims.

Redruth, March 28.

ECONOMY OF SMALL STEAM-ENGINES.

SIR,—On visiting a turner's shop the other day, I was pleased to observe, that the wheel and leather belt were turned by a steam-engine, consisting of a small furnace and cylinder, comprised within a very minute space. It would, perhaps, be well if the boilers of mine engines could be brought a little nearer to their work, and thus prevent a loss of power by the radiation of heat.—A Miner: Penzance, March 28.

CROSSE'S MITE.

Sir,-I have been an experimental electrician for a period of more than 30 years, and it is just 32 years since my first public communication on the subject appeared in a scientific journal. As I cannot submit to be catechised by Mr. Baggs (I presume my junior), and, moreover, as I acknowledge no "father confessor" in science, I must waive all further comment ledge no "father confessor" in science, I must waive all further comment or reply. I have never questioned, for a moment, Mr. Crosse's exposition of a thunder-cloud, nor doubted the validity of his claim as a sound electrician, save in the matter of insect production. Here, indeed, Sir, I am free to avow, that I shudder instinctively at the bare idea of atheism; and I glory, too, in an honest repudiation of that "science" (falsely so called) that can dispense with a Creator, and proclaim its eurekes independent of a God. What sound logician can doubt, for a moment, that any organism whatever, animated by the throes of life, can emanate from the fortuitous concourse of atoms?—otherwise, on what principle is Lacretius chargeable—as he is, by common consent—with unredeeming atheism? and that man is a cretin, or a fool, who cannot see the same dark and dismal doctrine in "equivocal production," or "spontaneous generation." With all such sentiments I have no community of feeling.

Your correspondent must allow me to know more about Crosse's mite

and dismal doctrine in "equivocal production," or "spontaneous generation." With all such sentiments I have no community of feeling.

Your correspondent must allow me to know more about Crosse's mite than he can pretend to. I called on Mr. Crosse, and saw the thing for myself; and the proper version of the whole affair, from beginning to end, I have recorded in my pamphlet, entitled, Observations on the Vital Principle, which has passed through three editions. Mr. Crosse is even indebted to me for giving this mite the very name it bears—Acarus Crosseii. It is, however, a mistake, to say that this particular species of acarus has no other habitat than Mr. Crosse's water-battery; it has been found under the bark of a tree, and on the walls of the cellar; and Mr. Clarke, of Taunton, finds that it is developed, in 12 days, in a splinter of wood in soap and water! and Mr. Crosse has confessed it is the very same insect. Did not Mr. Crosse, in his 'original account of it to his sister at Weymouth, explicitly say, that he was forming insects by the power of the galvanic battery?—and did not Mr. Newton, as well as Col. Macirone, hail the announcement in proof of "the production of life by electricity?" Now, Mr. Baggs should have known this, and much more, before he attempted a vindication of Mr. Crosse in this matter, and of which Mr. Crosse is, very naturally, so sensitive; and I dare to say, that this eminent electrician would have freely excused Mr. Baggs should have consulted the Comptes Rendues of the French Academy, and M. Turpin's statement, to whom Mr. Crosse had duly consigned one of his mites; it is in substance as follows:—"We know not what merit Mr. Crosse may possess as an entomologist, but if he concludes that he has found, by any fortuitous concourse of atoms, a being of so complex a structure as an acarus, he much deceives himself; the specimen sent is only remarkable for being a female, and containing an egg, showing that the acarus propagates its kind, as do other acaru." He then advises Mr. Crosse to

EXPERIMENTS ON COAL-ECONOMISING STEAM.

Sir,—You gave an article in your last week's Mining Journal, in which you call the attention of your readers to experiments made as to the kind of fuel which possess the greatest recommendation for steam-navy and marine purposes. In the same paper, are two long letters on the m

marine purposes. In the same paper, are two long letters on the same subject, and in the Daily News, and other papers, I perceive the same subject is also being referred to.

With such inquiries abroad, I am led to ask—is there verily, and, indeed, a desire for greater economy in the weight and bulk of coals required? Is it desired that half the freight in coal should be equal to the production of the same power, or that the same coal that is now necessary for thirty days cruise, or steaming, should be equal to the propel the same vessel, at the same speed, for sixty days?

If, Sir, such deciderata be really desired, then it can assuredly be effected, by economising the steam, in the manner, and upon the principles, I have long ago made manifest, and which I have for a long time endeavoured to press into the service of mankind. Those principles defy impeachment, and are, by the various inventions I have made public, rendered much more safe, convenient, compact, economical, cleanly, and comfortable, than the present system. Yet, forsooth, I am denied all encouragement; and told, that the Lords Commissioners of the Admiralty are not disposed to

adopt my "suggestions." I beg, however, to assure the official engineers of the Admiralty, that they are not mere suggestions, but proved and established realities; and such realities, that if my countrymen are content to be mislead by such officials, and will thus drive me to solicit the patronage of other nations, they shall find that I am no mere theorist; not one of those who, like them, with hundreds of thousands of capital, and all else they can degire for success, yet produce an endless succession of failures. I hesitate not to affirm—because I am enabled to do so on the most certain of all human knowledge—viz, that derived from experiment—that the first engine so constructed will demonstrate to the full, all the advantages I have set forth, and will realise, in one item alone (that of coal), a saving of 50 per cent. I, Sir, speak thus confidently on this subject, because for ten years I have had ample opportunity of forming a correct opinion upon it. I have also endeavoured, in a truthful manner, and as far as my individual efforts would enable me, to advocate and introduce so beneficial a change against the phalanx of opposing elements which are ever found uniting to deprive mankind of such advantages, and to securge inventors. Notorious though it be, that England's inventors and scientific men have been her greatest benefactors, yet she has thus allowed most of them to be scourged in an unrelenting manner. It is said, that inventors are enthusiasic men—they assuredly have reason to be so, to bear onward against the varied discouragements they have to encounter. But I assert, that it is not mere enthusiasm that bears real and useful inventors onward and upward, despite those discouragements—but the truth which is with them, and which their experiments demonstrate, in the long run, must prove more than a match for the spirit and obstacles that oppose them.

This is a time of revolutions; assuredly, in relation to inventors, such are demanded by all that is saccad and just. For what are the powers of

and which their experiments demonstrate, in the long run, must prove more than a match for the spirit and obstacles that oppose them.

This is a time of revolutions; assuredly, in relation to inventors, such are demanded by all that is sacred and just. For what are the powers of mind required for successful invention, but those of clear discrimination, aided by luxuriancy of imagination;—the latter, furnishing the mind with a chaos of elementary materials, from which the discriminating powers, directed by a clear knowledge of abstract principles and practical requirements, devises and constructs the means suited to effect the desired purpose; which, being experimentally tested, and found to be correct in all their bearings, become indestructible truths, which may be suppressed, but cannot be destroyed. Are such minds so common, or are such results so trivial, that in England they should be doomed to never-ending discouragements? Are such men for ever to be at the mercy of the pirate, the arrogant, the interested, and the envious? Is there to be no end to the injustice ever being practised, of postponing the application of their inventions till some more convenient senson; when, too often, they are appropriated to the credit and advantage of others—aye, even those who denounce them, in connection with their originators, as something too visionary to deserve their serious attention. Thus have the rightful originators been despoiled, not only of a small moiety of the profit, but also of the honour which attaches to all discoveries which are good in themselves, and beneficent in their tendency.

England has permitted this disgraceful treatment towards her inventors to a greater extent than that of any other civilized nation; as France, America, and, above all, Belgium, exhibit a disposition to treat with fairness, those who open up sources of lasting good to the whole family of mankind. Per eying there is an effort made by your correspondent, Mr. Campin, to call the attention of the legislature to the objectionable

Birmingham, March 28.

VENTILATION OF COLLIERIES.

Sir,—Having the other day, for the first time, glanced over the last report of Mr. Tremenhere, the Government Commissioner of Mines, and who has, during several years past, had an opportunity of examining all the best systems of ventilation, I was not a little surprised at seeing the plan of Mr. Gibbons, South Staffordshire, loudly applauded in the following terms:—"A gentleman, uniting considerable acquirements with long practical experience, and who has, for many years, applied himself to this, and other questions, bearing upon the welfare of those around him, has recently published a small work, in which he describes, in detail, the mode of ventilation, long since introduced, with complete success, into his collieries. Taking advantage of the natural tendency of the gas to ascend, Mr. Gibbons's plan is to open for it a passage, about 2 ft. square, along the upper stratum of coal, and up the side of the winding-shaft, and hence into a chimney (from 60 to 90 ft. high), which it enters at about 30 ft. above the furnace. The winding-shaft then acts as the downcast shaft for the stream of pure air, and the expense of a separate upcast shaft is sayed, as the air channel, of 2 ft. square (or 3 ft. by 2 ft.), constructed by the side of the former, fully answers the purpose." "Mr. Gibbons thus establishes a system of ventilation, which is, under ordinary circumstances, self-acting; and an experience of 25 years has, in his opinion, fully proved its efficiency."

In what an age we live, when we see a high functionary of the Government with every construction which the construction which the construction with the constructi

and an experience of 25 years has, in his opinion, fully proved its efficiency."

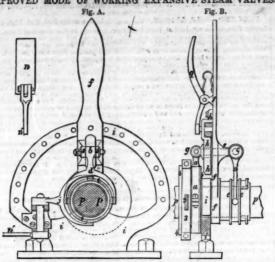
In what an age we live, when we see a high functionary of the Government, with years of experience upon his head, derived from the viewing of mines in every part of the kingdom, praising a system, which was shown, through, the columns of your Journal; by Mr. H. Johnson, to be the very reverse of improved. Now, let us scrutinise its principle. Taking each working shaft to be 7 ft., the area is 38 ft. downcast, and the size of Mr. Gibbons's groove we will take to be 5 ft., being nearly \$\frac{1}{2}\$th the former. Now, this is not simply the discharge of gas, but it is the whole capacity of the upcast—air and gas—and this, too, for the ventilation of a seam 30 ft. thick. Sir, the proposition is so absurd, that there is not a common collier, in this part of the country, who would not condemn a pit carried on by such unheard of principle. As to the chimney, why the tubes of this country are nearly 200 years old, the remnants of which may be seen and heard of in the very oldest collieries of the district. But, then, such a system, to receive the commendation of a Government Inspector—one who has written and published successive reports—is the most surprising, greatly, indeed, calculated to bear out the objections which are made against the principle of Parliamentary interference in the management of mines. I strongly advise some of your practical viewers to procure the report from Clowes, the Queen's printer, and favour us with a few comments.—Carbon: Durhum, March 28,

IMPROVEMENT IN THE PROCESS OF TANNING.

IMPROVEMENT IN THE PROCESS OF TANNING.

Sin,—I beg to offer one or two observations, through the medium of your columns, in reply to your intelligent correspondent, Dr. Murray, whose letter, treating on leather, and more immediately referring to my patent, appeared in your Journal of the 25th March. Although my invention of puncturing the skin may have reminded Dr. Murray of his former suggestion of "impregnating the pelt with tannin," by means of a vacuum, yet I must be allowed to say, that there is a strong line of distinction to be drawn between the one and the other, which it will be my endeavour briefly to explain. The chemical combination between the tannin and gelatine does not take place immediately and completely, "on the principle by which quicksilver is forced into the pores of wood;" but, on the contrary, in order to be efficient and most favourable to the production of a superior article (of leather), proceeds gradually, and, I may add, somewhat slowly. The tannin does not merely fill up the intersices between the fibres, as mortar between bricks, or as quicksilver does the pores of wood, but it assimilates with them, forming a most perfect union, at the same time that each undergoes a partial change. The claim I set forward in my patent, which was noticed in your Journal of the 1th March, is that of exposing a much greater surface of fibre to the immediate action of the tanning, and thus facilitating the process, at the same time that I thereby gain weight and increased substance, attended with which is that of the saving of time—an important consideration in itself—the labour of handling, and economy of tanning material, while the quality of the leather is much improved—as evidence of which I beg to forward you herewith two specimens, one of which was tanned in the space of six weeks; the other, which is, of course, of an inferior quality, having been done in seven days, but which I do not recommend. It will be observed, that the puncturing is the main feature presented in my patent, whereby the

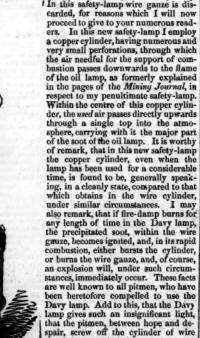
IMPROVED MODE OF WORKING EXPANSIVE STEAM VALVES



Sir,—Fig. A is an end elevation; and fig. B a side elevation. In this design, one eccentric, which is shown at 4, 4, 4, is made to give motion to both the steam and expansive valves. The time at which it is desired to open and close the expansive valve, in relation to the stroke of the piston, will be understood from the following description of the parts:—a a is the clip and eccentric rod, which communicates motion from the eccentric, 4, 4, 4, to the expansive valve, n, through the right angular lever, b and d, which moves upon the pin, c, which is attached to the small projecting parts, s s, which project from the lever, f—the lever, d d, terminating in a forked end, which takes into the groove of the circular ring, e e, which ring is moved longitudinally by the action of the eccentric through the aforesaid lever, b and d; j is another right-angular lever, which communicates motion to the expansive valve, n, through the valverod, n'. The part represented at i, receives its support from the foundation, or other fixed part, to which the main shaft of the engine is attached, and has a projecting socket, on which the lever, f, and ring, e, work—so that these parts have no direct communication with the main shaft. The ring does not revolve, but only partakes of the longitudinal motion, imparted from the eccentric, and from thence through the levers, l and n', to the expansive valve. The arc of the part marked i, supports the lever, f—ti being also graduated, indicates the point at which the steam is cut off; as it will be seen that, by moving the lever, f, the whole of the parts, a a, b, d, h, and s s, are carried round with it to any desired angle in relation to the main crank of the engine, whereby the same thing is effected as if the eccentric, 4, 4, 4, itself were moved round, which governs the time of opening and closing the expansive valve. The part marked h, is attached to the lever, f, firmly in the desired position; whereas, on presing the smaller lever with the hand, the lever, f, is liberated and moved

DR. CLANNY'S NEW SAFETY-LAMP. Srn,—I have much pleasure in transmitting to you, for the Mining ournal an engraved wooden block, illustrative of my last safety-lamp.

In this safety-lamp wire gauze is discarded, for reasons which I will now

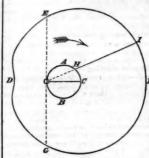


combustion, either bursts the cylinder, or burns the wire gauze, and, of course, an explosion will, under such circumstances, immediately occur. These facts are well known to all pitmen, who have been heretofore compelled to use the Davy lamp. Add to this, that the Davy lamp and the pitmen, who have been heretofore compelled to use the Davy lamp. Add to this, that the Davy lamp and the pitmen, between hope and despair, screw off the cylinder of wire gauze for several obvious reasons, preferring to my plan, which I adopted in the construction of my steam safety-lamp, in which I adopted in the construction of my steam safety-lamp, in which the atmospheric air passed spontaneously upwards, through a tube at the back of the lamp; then it passes through a volume of steam (which was extricated by the heat of the oil lamp to the flame of the oil lamp. For this safety-lamp, I had the honour, at the hand of H.R. H. the late Duke of Sussex, as president of the Society of Arts, to receive the largest gold medal of the said society—A.D. 1817. This new safety-lamp has been most assiduously employed in the Monkwearmouth Colliery, in this vicinity, by consent of the proprietors, and under the immediate management of the talented viewer and underviewer. I am impressed, that perforated plates of iron, or of plates of tinned iron. Besides, it is more pliant, durable, and cleanly than iron—it does not rust in a safety-lamp—is not, in a coal mine, rendered impervious to the needful supply of atmospheric air, free from rust, and is more workable, especially at the joinings, and is more readily cleansed by the safety-lamp brush. Some persons, who have not yet seen this new safety-lamp, either in or out of a coal mine, may object to the glass cylinder. I hereby beg leave distinctly to affirm, that as far as has come to my knowledge, such objections are groundless, as those viewers and pitmen, who have extensively employed my new safety-lamps in different coal mines, greatly infested with fire-damp, have testified to me of their own f

circumstance, it remains is situ, and in a safe state in respect to the surrounding fire-damp, as was proved by an eminent viewer, a friend of mine. He kept my new safety-lamp burning for a considerable length of time in a coal mine under his charge; he then turned the safety-lamp upon its side, so that the flame of the oil lamp was continued, and, in the presence of several respectable persons, struck the glass cylinder violently and repeatedly with a thick stick; and it was only after giving several blows, he at last succeeded in making a simple fracture of the cylinder, and which was not pervious to air of any description. This "experimentum crucis" was of his own devising, and which he reported to me with great exultation. On another sheet of paper, in the present envelope, you have the gentleman's name, and that of the colliery, &c., which, of course, is confidential.—W. REID CLANNY: Sunderland, March 27.

ROTATORY STEAM-ENGINES.

SIR,—Having paid some attention to the theory of that description of rotatory steam-engines acting by the shifting of weights—one form of which was patented by Mr. Witty, of Hull, in 1810 (see *Repertory of *Arts*, vol. 17, page 129)—and another by Mr. Sims, within the last few months—I am induced, by having seen the latter engine described in your Journal of the 25th inst., to offer you the following brief summary of the mathematical principles of their action:—1. The piston and piston-rod, and the weights with which they are loaded, act to produce rotatory motion as if their whole mass were collected at their common centre of gravity, which, in Mr. Sims's engine, is at the centre of the piston.—2. When an engine, in which the position of the valves is adjusted in the best manner, has attained a state of uniform motion, the centre of gravity of that sliding mass revolves *twice* for each complete revolution, or double stroke, of the engine, in a circle, O, A, H, C, B (see diagram), which passes through the axis, O, of the shaft, and at that point is tangent to a vertical line, E, O, G, and whose diameter, O, C, is one-half the length of the stroke.—3. The gross mechanical effect of this rotation is equivalent to that of the weight of the piston, with its load; I, the length of a single stroke; and n, the number of double stroke; in a minute. E = 1.5708 n, w., b, In a well-constructed engine, the length and number of strokes—and, consequently, the expenditure of steam—will spontance of the constructed engine, the length and number of strokes—and, consequently, the expenditure of steam on the piston, deducting the friction of the piston and rods, bears to the weight, w, the constant ratio of '7854 to 1, when a uniform velocity has been attained—that is to say, if p represent the net effective pressure of steam on the piston, deducting the friction of the piston, p = '7854 to 1. When a uniform velocity has been attained—inch, and a the area of the piston, p = '7854 to 1. When a uniform v



inch, and a the area of the piston, $p = .7854 \frac{w}{a}$. Hence, by properly ad-

justing the load of the piston, the engine may be made to work under very variable duties at that pressure, which is found to answer the greatest economy of steam.—5. When the engine, however, is being started from a state of rest, the pressure, p, must, for a limited time, be equal to, or some-

state of rest, the pressure, p, must, for a limited time, be equal to, or somewhat greater, than $\frac{w}{a}$ —6. If $\mathbf{H} = \mathbf{E} = \mathbf{O} = \mathbf{O} \mathbf{G}$, represent the distance of one of the weight blocks from the common centre of gravity of the piston and its load, that block, when a uniform velocity has been obtained, will describe a curve of the epicycloidal kind, \mathbf{D} , \mathbf{E} , \mathbf{I} , \mathbf{F} , \mathbf{G} , whose radius-vector, \mathbf{H} , \mathbf{I} , describes half a revolution round the point, \mathbf{H} —while that point goes once round the circle, \mathbf{A} , \mathbf{C} , \mathbf{B} , \mathbf{O} . Hence, the guide plate mentioned by \mathbf{M} r. Sims ought not to be parabolic, but epicycloidal; otherwise, it will interfere with the uniformity of motion, especially when the duty is heavy.—7. The weight blocks ought to be fixed as near the common centre of gravity as is practicable, in order to diminish the strain arising from their centrifugal force.—8. The rotatory force-exerted on the wheel varies according to a law analogous to that of the action of a crank and a fly-wheel, or something equivalent is, therefore, required to produce uniformity of motion. This irregularity of action is, of course, diminished by fixing two or more cylinders at suitable angles on the same shaft, as described in \mathbf{M} r. Sims's specification.

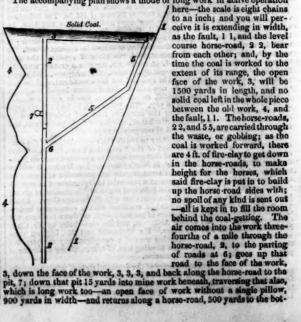
Cyron.

London, March 29. ndon, March 29.

COLLIERY OPERATIONS—THE LONG-WORK SYSTEM.

COLLIERY OPERATIONS—THE LONG-WORK SYSTEM.

Str.—The description given by Mr. J. C. Sutcliffe, in your Journal of the 18th March, is a step in the right direction. He describes it as the Yorkshire long-work mode of colliery working, which consists of pillars of coal between each division of open workings, and in each of which there are two headings to air each other, by openings made between them laterally, which said openings are stopped up as the headings advance forward, and new ones are made. I wish he had given us a scale to his plan, or mentioned the breadth of his long work, so called. I should suppose, comparing the breadth of his large openings with the breadth of his headings, that they do not exceed 40 yards in breadth each. The mode of ventilation, set down in his plan, I have not a doubt will prove successful in a moderately infested colliery; but it has too many turnings and stoppings for desperate cases of fire-damp for coal-getting; and it also appears to me to be a very expensive method. Mr. Sutcliffe's coal-headings are very numerous—double heading at every 40 or 50 yards, and side holes from them into the wide work places, and into each other also; and the stoppings with bricks and mortar of these holes behind, as the work proceeds forward, must also tend to make the coal-getting expensive. I am myself under the necessity of driving double headings, and cross-cutting from one to the other, in new openings, until I can communicate with regular systematic ventilation; and here I beg to explain what happened in this colliery some short time since. The gas fired in one of those double headings, blowing the greater part of those double brick and mortar wall stoppings from between the headings, and forcing the bricks into the solid rib of coal, on the opposite side of the heading, where the fragments of bricks are now to be seen—a poor chance for colliers to escape from after-damp from inside workings, when the stoppings are blown away outside them; therefore, the fewer stoppings in fiery collieries



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tom of the apeast pit, which is a working pit, drawing coal; two powerful furnaces are connected with that pit, about 15 yards above the bottom of them. You will perceive there are no headings to be paid for in the above mode of long work, no stoppings to make, and all work is done in the air-way. The usual way of working the coal, at 4.4, was by stalls, about 10 yards wide, with 5 yards of pillar between each stall. That piece of coal could not be worked that way from the old work, 4.4, to the fault, 1. The gas was very powerful against the fault; and up at the extreme rise of the work, too, the gas would fire in the Davy lamps; and the coal was left there many years for that reason. Since the longwork system was adopted, the coal is worked very comfortably, without using the Davy lamp at all, with the exception of going round the work, the first thing in the morning, to examine its state, before the colliers begin. The piece of coal-getting now described has been one of the most difficult fiery pieces I was ever connected with; but it is now quite conquered, and is an exceedingly extensive piece of coal-getting. I might safety from fire, in the above mode of long work.

T. Deakin.

Blaenavon, March 21.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK. MEETINGS DURING THE ENSUING WEEK.

MONDAY ... Treleigh Consolidated Mining Company—offices, at One.
Dartmoor Consols Mining Company—White Hart Inn, Coggeshall, Two.
West Cornwall Railway offices, at Two.
Indian and London Life Assurance offices, at One.
Friend Fuel Company—offices, at Twolve.
Alliance Assurance Company—offices, at Twolve.
Royal Mail Steam-Facket Company—London Tavern, at One.
Commercial Gas Company—London Tavern, at Twolve.
Colombian Mining Association—offices, half-past Pro.
[The meetings of Mining Companies are inserted among the Mining Intelligence.]

PROFESSIONAL LIFE ASSURANCE COMPANY. X The first general meeting of this company was held at the offices, 76 Cheapside, on Wednesday, the 29th March. Colonel CAMERON in the chair.

Cheapside, on Wednesday, the 29th March.

Colonel Cameron in the chair.

The Chairman, in opening the business, said, that a very comprehensive report had been prepared, which he would call upon the actuary to read.

Mr. Baylis (the actuary) accordingly proceeded to read the following Report.

Although a period of less than 12 mouths has elapsed since the complete registration of this corporation, and the actual commencement of business, the directors have much pleasure in availing themselves of this opportunity to meet the shareholders, and submit to them a statement of the progress and prospects of the company. The accounts, as approved and audited, and this day laid before yon, are necessarily confined to the transactions of the company from April, 1847, the date of its commencement, to the 31st of December last, a period of only eight mouths. In reviewing, however, the affairs of the office from the date of its establishment to the present time, the directors are gratified to announce that, nowlihistanding the extraordinary general depression of trade and commerce, a degree of success has attended the company, which promises well for its ultimate usefulness and stability. From the date of the issuing of the first policy on the 23d of April last to the present time, a term of scarcely 11 monits, 161 policies have been effected, producing an income of 1015. 0s. 3d.—a result they cannot, under the embarrassing circumstances of the times, but consider highly satisfactory and encouraging, although they regret to report that one loss by death, involving a claim of 4001, has, during the interval, occurred and been liquidated among a highly respectable proprietary, places its affairs upon a safe and responsible basis. Out of 250,0001, constituting its entire company already subscribed for, and distributed among a highly respectable proprietary, places its affairs upon a safe and responsible basis. Out of 250,0002, constituting its entire capital, derived from 2,0000 shares, of 124, 10s. each, the sum of 92,5622, 10

and peculiar to, this office, acused to mean and peculiar to, this office, acused to mean and peculiar to, this office, acused to mean acused the companied with the companied with the company was established at a time when the money market was most inauspicious, that the shares were advertised during the prevalence of a panie sufficient to impedit the success of any company, however powerfully introduced to the public, and although the disastrous state of the money market still exists in an increased degree, yet the appreciation by the public of the benefits embodied in the institution is truly gratifying and acceptable to the directors; and the assured and the proprietary may rely, that ne officers or means will be wanting, on their parts, to realise the sanguine anticipations entertained of the company's success, to assist in accomplishing which, they respectfully invite, and confidently depend upon, the influence and co-operation of their shareholders individually and collectively.

A D Wesson considered that the report presented to them was

invite, and confidently depend upon, the immence and co-operation or near statements, individually and collectively.

Mr. A. D. Wrsson considered that the report presented to them was very satisfactory; and he should, therefore, have great pleasure in moving its adoption.—Mr. NoLowrit seconded the motion, which was unanimously carried.—The gallant chairman (Mr. W. Wellington Cooper) and Capt. Earle, were then re-elected as directors; and Messrs. C. M. Elderton and F. Wollatt as auditors.

Mr. W. White Cooper thought it but fair, that those gentlemen who devoted their time to the duties of auditors should receive some remuneration for their trouble; and he, therefore, begged to move, that they be allowed 10l. 10s. each.—The motion, being duly seconded, was unanimously carried; and the Chairman called upon Mr. Baylis to give the meeting a statement as to the position of the company, with which he was better acquainted than any member of the direction.

Mr. Baylis said that, in availing himself of the opportunity of addressing the shareholders, which the chairman had so kindly afforded him, he must be allowed to express his opinion, that no company could have a better or more unanimous board than they had, or one in which the gentleman (Col. Cameron) who presided over it gave greater satisfaction.—(Cheers.) He felt bound to state this; for in the unanimity of the directors existed the security of the shareholders. Their society, he trusted, would take a foremost rank among assurance companies; and, notwithstanding the embarrassments of the times, he believed that, in the basiness they had done, they had the germs of a great company. (Cheers.) They had had greater difficulties than most assurance companies to meet at starting, in consequence of the pressure of the times which had existed, and still to some extent existing; but if the directors, the shareholders, and the assured, supported it—as he hoped they would—the "Professional" must become a great company; and he was sure that no efforts would be wanting on th survivors of the assured. If, from a reverse in prosperity—upon a continuance of which no professional man could count—a shareholder, as an assurer in that company, ever came to want, there would be always found a fund to make provision for him in his old age. (Cheers.) That was one of the great objects they had in view from the first; and it might be satisfactory to know, that its being carried into effect, was amply provided for in the deed; and it was in the hands of the shareholders themselves to see that every benefit promised by the company was properly carried out. (Cheers.) Theirs was not an institution where the directors, finding they had a large amount in hand, could appropriate it as they pleased—the solicitior of the company (Mr. Elderton) having inserted a clause in the deed, placing its disposal entirely in the hands of the shareholders themselves, were so situated, that they never could come to want, if that company were successful; and successful it must be, if it were properly supported by the shareholders themselves. He hoped the shareholders would excuse him, if he urged every one present to bring with him one policy per annum; but, for the present, he considered that they had done a great amount of business. He asked whether they were not of opinion, that their office was as firmly established as the oldest in the kingdom? They had seen the same as firmly established as the oldest in the kingdom? They had seen the same had to be considered in the considered in the kingdom? They had seen as firmly established as the oldest in the kingdom? They had seen the was a firmly established as the oldest in the kingdom? They had seen the considered inspired by the position of their local agents. If they wanted was to be able to print a list of subscribers, that would add to the confidence inspired by the position of their local agents. If they did not advance as fast as they might desire—if they did not yet show

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large profits—they had got upwards of 80 proprietors with 100,000*l*, subscribed capital; and every one who knew what life assurance was, must feel that that was amply sufficient for every purpose they could require. He knew of no society that offered such benefits to the assured and the shareholders as that did; and if it was fairly carried out—and he was sure

shareholders as that did; and if it was fairly carried out—and he was sare the directors would use their best exertions for the purpose—he knew nothing under the sun to prevent its success; and he was convinced, that all that was required, was the hearty co-operation of the proprietors, to make it one of the first offices in the world. (Cheers.)

The dividend of 5 per cent. upon the paid-up capital having been declared, the Charman said that he was satisfied, if they only followed out the advice of Mr. Baylis, that theirs must become a good and prosperous undertaking.—Mr. Noldwritt thought they were greatly indebted to the actuary for his exertions, and he, therefore, begged to move a vote of thanks to him.

undertaking.—Mr. Noldwritt thought they were greatly indebted to the actuary for his exertions, and he, therefore, begged to move a vote of thanks to him.

Mr. Wesson seconded the motion, which was carried unanimously.

Mr. Baylis could assure them that he was extremely delighted at receiving that mark of their kindness; but he did not think that he had yet done anything to deserve their thanks. They had only just commenced business; but he hoped the next time he had the pleasure of meeting them, that their policies would have increased from 100 to 500, and their profits from 1000l. to 5000l. He felt that at present he had done so little, that he ought scarcely to receive his salary—(a laugh)—but he felt that there was a glorious field before them—(cheers)—and that when they were fully and fairly at work, there was no office which would better carry out their objects, not only of assuring lives, but in giving assistance to the shareholders, and those who had assured with them for five years. He thanked them most kindly for the vote they had just passed; and he hoped that when he met them next year—and they all acted on his suggestion, and introduced a policy to the office—that he should be enabled to give them such a statement of their success, as better to entitle him to their thanks. In conclusion, he must be allowed to express his gratitude to the directors, the surgeons, and every person connected with the company, for the assistance he had received from them. (Cheers.)

Captain Earle said, that he was sure they would not separate without giving a vote of thanks to their worthy solicitor (Mr. Elderton), to whose exertions they owed the formation of the company. (Cheers.) He, therefore, begged to propose a resolution to that effect.

Mr. Massex had great pleasure in seconding the motion, which, on being put, was carried unanimously.

Mr. Elderron would not detain them long, but he felt that he should not be doing his duty, if he did not respond to the kind manner in which his name had been mentioned by Capt.

part to earry out the objects of the company to their fullest extent. He would not enter into a detail of what they intended to do, lest some time hereafter they might be called to account for not doing all they said they would—(cheers and laughter)—but they would use their best exertions to promote their general interests; and if the shareholders co-operated with them, he had no doubt that it would shortly be one of the first companies in the kington. (Cheers)

them, he had no doubt that it would shortly be one of the hist companies in the kingdom. (Cheers.)

A vote of thanks was then given to the medical officers of the company, which was briefly acknowledged by Dr. Barker and Mr. W. White Cooper; and thanks being voted to the chairman, the meeting separated.

ON VENTILATION AND DISINFECTION.

A little work on these important subjects, being the basis of a lecture delivered gratuitously by our esteemed correspondent, Dr. Murray, of Hull, at the Brechin Mechanics' Institute, and dedicated to Lord Panmure, has just issued from the press. The subject of ventilation, which is completed, is handled in Dr. Murray's usual masterly style; in it he explains numerous phenomena of

from the press. The subject of ventilation, which is completed, is handled in Dr. Murray's usual masterly style; in it he explains numerous phenomena of daily occurrence, but which are generally much misunderstood, and shows how the immutable laws of the atmosphere may be taken advantage of for promoting health, and keeping up a proper circulation in every apartment of our dwelling-houses. After describing the chemical properties of the atmosphere, he remarks on the respiration of animals, as follows:

"When animals respire atmospheric air, an important change occurs. The 79 proportionals of nitrogen, indeed, remain unaltered; but a certain per centage, variable according to circumstances, has disappeared from the relative amount of oxygen, and has been supplanted by an equivalent of carbonic acid gas, the oxygen having been absorbed in the bronchies, or air-selfs, and passed into the circulation, which ejects, in refurn, carbonic acid gas. The nitrogen of the air expired ascends, in virtue of its inferior specific gravity; while the carbonic acid gas descends, unless winged by heat, when it will ascend, and remain buoyant until it be cooled down."

He shows that precisely similar changes take place in the act of combustion. He says, "when flame accompanies combustion, by a statical law, it tends upwards—the space in the chimney above is rarified, and the products of combustion thus ascend, and finally escape; but, if charcoal, coke, or anthracite be employed, yielding no flame, me such rarifaction ensues, and the mephilic products of combustion—carbonic acid gas and carbonic oxide—are evolved: the latter, a subtle and dangerous gas, which, equally with carbonic acid gas, acts on the brain as a narcotic poison." The author then proceeds to show that close iron stoves of all descriptions are dangerous, and eight to be abandoned, as open fire-places will ever prove the best auxiliaries to health in this climate, avoiding the serious amount of deterioration referred to, and providing a free and unfettered focus, t

decomposition of animal and vegetable matter, as cess-poose, same the beautifully observes—
"Buried in the soil, and hidden from view, the decaying mass, offensive to the eye and destructive to health, is changed, by chemical laws, into forms of loveliness and elements of beauty; and from that from which we instituctively recoil, arise germs of vegetable life, lovely in their luxuriance, and replenshing our garners with golden grain and other products, for the sustanance of man and beast."

We regret that our space will not allow us to proceed further in our present Number, but shall avail ourselves on another occasion, of the further portions of the lecture, to give every information on this all-important subject, as also on that of disinfection, which, we doubt not, will be continued in the author's usually lucid and elegant style of action.

PATENT ALKALI COMPANY'S IRON PAINT.—This PAINT, now first offered to the public, is the PRODUCT of a PATENT PROCESS, and possesses VALUABLE and PECULIAR QUALITIES, not otherwise attainable. Its colour is a purple-brown—it is perfectly innocuous—is far more durable than lead paint, and two coats are fully equal to three of any other paint. A single coat will be sufficient to demonstrate this. It dries rapidly, and its durability is very great. From its chemical composition, it is especially, and shove all other paints, adapted to covering iron; also wood, and stuccoed, or brick walls. The peculiar oxidation of the base of this paint makes it impossible that further change should take place in its composition. Its identity with iron secures it from galvanic action, so injurieus to the durability of lead paints on iron work. It has been exposed on shipping to the action of seawater, and the sulphuretred hydrogen, so provalent in sea-ports and thish abrobars, for three years, without change.

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surious consequences of either of the following accidents—viz.:

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ovest temperatures, or require any application when out or use, are particularly adapted for fire-engines.

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mpany has been formed to carry into effect an improvement in the art of tan-

This company has been formed to carry into effect an improvement in the art of tan-ning, by which leather is rendered not only superior in quality, but is produced at a lower

ning, by which leather is rendered not only superior in quality, but is produced at a lower price, and more uniform in texture, than by any process hitherto known.

A patent having been granted to Mr. Snyder for his improvements in turning, the rights of the patentee have been secured, on advantageous terms, as also his services in carrying out the operations of the company.

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The directors beg to claim the alternism of the public to their arrangements, which, they trust, will be found to secure the interest of subscribers, without incurring, any of laces or is not unfrequently attendant upon such enterprises.

THE GREAT POPULARITY OF HOLLOWAY'S OFTRIENT AND PILLS IN THE Wast INDIES IN THE CREAT ROLL. Strip Durance—A years goulisman, realding in St. Kitt's, was afflicted with a most distressing skin disease communityterance—this charges—he had the best model advicestinff could be obtained in this fished that, Rading that described no benefit from their treatment, he determined on having recommended followay's olutionent and pills which had a most greatlying effect, for, in a very hained perfect these invaluable remodels completely cured him. 3hr. 7. C. C. Dobbe, of St. Altt's, roughing the course of the statement.—Sold by all struggiess, and in Twelstein Hollowy.

BOBERT OWEN ALAND, Eq. (Chairman), in the chair.

The circular convening the meeting having been read by the purser, the following report was laid before the shareholders:—

The shareholders having been called together within so short a period, since the company commenced operations, it might not have been expected that the directors could be in a position to state much as to the general affairs of the undertaking. They are, however, happy to say, they feel justified in doctains (that every thing progresses most satisfactorily; and that there is every reason, to believe the statements put forth from time to time, by the captain of the mine, will be fully realised. The works on the part of the company commenced in November, only four months since; yet the captain asserts, that the mine is now in a state to pay its own expenses, which is, of itself, a grarantee of his opinions, as to the ultimate result being well founded. The mine is purely in its infancy; yet there are already four pares of men working on tribute at 10s. 102s., and nearly \$300 worth of them bank; so that, altogether, the success may be considered established, and the prediction of Capt. Floyd, as to the mine becoming remunerative whithin a few months, fulfilled. There is now much more tinstuff than the present crushing-power can work, but the directors have made arrangements to remody this inconvenience without delay. The captain is present, and will be happy to enter into any detail. The accounts are on the table, by which it will be seen the whole purchase money of £1000 has been paid; and a freshold house, and ground for building ottiges, have been bought for the company. The sum of only £45s has been expended in working, including trade hills and additional machinery, and there is a balance of £200 in favour of the company.

With respect to the specific object for which this meeting is summoned, the directors have to mention that they have obtained the opinion of one of the most sampetent actuates in London, which does not justify the board

Proposed by William Varley, Esq., and seconded by William Johnso That the report of the directors be received, and entered in the cost-book.

ROBERT OWEN ALAND, Chairman.

Proposed by William Varley, Esq., and seconded by William Johnson, Esq.,

That the report of the directors be received, and entered in the cost-book.

The Chairman and the directors be received, and entered in the cost-book.

The Chairman and the directors be received, and entered in the cost-book.

The Chairman and the moving from his own inspection of the nine, that those accounts they had received, and knowing, from his own inspection of the nine, that those accounts were not used to the company. The directory of the directory of the directory of the company. The gentlemen who had not think there could be a better opportunity of calling the attributed to the company. The gentlemen who had not think there could be a better opportunity of calling the attributed to the company. The gentlemen who had not the directory the directors the directors the directory of the directors that day a gentlemen, who was an exception to the general run of mining captains, who generally dealt in prophecies, and led their propietors on fer five or six years before anything was produced, if it ever was; but, whatever he had predicted had been immediately realised. He (the chairman), Mr. Dawes, and Mr. Butler, had originally gone down unexpectedly to view the mine, and consequently no kind of preparation was made for them; thus, so apparent was it, that even the wayfaring, or ignorant man in mining matters, could not fall to see that there was tin upon the spot. On their visit no one knew the object off; the were, however, introduced to Captair Floyd, who was rather rough in his manner, but he (the chairman) of the company of the captain only extended from month to month, and he had hitherto more than proved what he had led them to expose. (Cheers.) They would see from the report, the trilling amount hey had expended upon the works, and yet they had aiready was the prophese of the captain informed them, that it would co

The resolution was then put, and carried unanimously.

The annexed case, drawn up by the solicitor, and the opinion of Mr. Farrance thereoners then read to the meeting:— Case.

"By the terms of the annexed prospectus, the directors are to pay the original lesses me-tenth of all profits, until £1500 shall have been so paid, but with power to cancel such payments for £1000 down. The original lessees have now proposed to sell their increate to the company for a less amount than the above-mentioned £1000—which proposal the directors feel disposed to entertain—and the only question is as to the actual raise of such interest.

posal the directors feel disposed to entertain—and the con-value of such interest.

"It is, of course, impossible to determine, with any very great degree of accuracy, the amount of the annual profits; but, from the present appearance of matters, it is reason-able to suppose that such (net) profits will amount to £1000—to one-tenth of which the lessees will, under their present agreement, be entitled.
"Taking the net annual profits at £1000—Mr. Farrance is requested to advise what is the present value of the interest of the original lessees?

"£835—G. J. Farrance, City of London Life Assurance Society."

"It is probable that the directors may determine to apply a portion of the profits to ward improvements, and extending the works. Supposing, therefore, one equal molety of such profits were to be annually applied toward those purposes, and the amount so applied should yield returns at the same rate—then, What is the present value of the lesses interest?"

"If I rightly apprehend this question, it is proposed to devote a moiety of the profits (i.e., £1000, minus £100—the portion set aside to accumulate for the benefit of the original leases, or £900) for purposes of improvement; thus, a moiety of £900 is equal to £450, and a tenth of this is £45, annually to follow the original distribution for the benefit of the leases. The answer, therefore sought, is the present worth of £45 per answer.

of the lessees. The answer, therefore songers, for 12 years, being £398 16a.

£398 16a.

£385 0 0

Value of lessees' interest, first question.

£385 0 0

Value, assuming lessees to take such an interest stated in the second angastion.

" City of London Life Assurance Society, 2, Royal Exchange-bu March 15, 1848."

March 16, 1848."

Capt. Floyd then entered at some length into an explanation of the character of the mine, confirming the statements of the chairman as to its value, and stated that its working must always prove comparatively light in cost, from their having so much water-power at their command, that they could never want the assistance of steam. He also mentioned that the mine contained a valuable body of copper, which was not yet cut. "We have, I think," said Capt. Floyd, "about 19 or 14 fms, further to drive to cut the great canner in tode, and I think it will cost the space of four months to complete the work—I mean at cut the lode, the ground being so hard; and, from the present appearance of tile lode in the shaft, from its size and goodness, being 6 ft, wide, producing large quantities of tin. I do 10. hesitists to say, when cut and in full course of working, which will take about six months—that is, four to cut the lode, and two to explore on the lode—we shall have been a position of returning 60000. per anum—that is, with the tin risen from the middle and not full not of returning 60000. per anum—that is, with the tin risen from the middle and not full not so any working, will, in the above-mentioned time—shall then be in a position of returning 6000. per anum—that is, with the tin green condition of the living and condition of the living, and can testify and the same of the tin of present relied from the mine is about 61. Per four. He predicted that this mine would prove a second Wheal Maria—(cheers)—which he was the first to fluctover, though, being a poor man, he had not reused any benefit from it. "I was the person," continued Capt. Floyd, "that would fall, The said more are now in the land of the living, and can testify, as to the truth of this assertion, that I was the man that showed first Hitchins, of Taylstock, first Thomas, and another gentleman from London, the Great Wheal Maria. Thes, and broke, with my own labour; in the presence of the above, sendement, the goas native was first sent to

TIN VALE MINING COMPANY.—The First and Special of General Meeting of shareholders was held at the offices of the United Kingdom Cattle Assurance Company, 61, Cheapaide, on Monday, the 77th March, 1848.

BOBERT OWEN ALAND, Eq. (Chairman), in the chair.

The circular convening the meeting having been read by the purser, the following report was laid before the shareholders:

REPORT.

The shareholders having been called together within an abort a period, since the com-

Moved by the Chairman, seconded by William Johnson, Esq., and lessived,—That this meeting considers it most desirable for the interests of ders generally, that the claim of the original lesses should be purchased—horise the directors to effect this object.

authorise the directors to effect this object.

Proposed by the Chairman, seconded by John Routh, Esq., jun., and
Resolved,—That a call of 18s. per part or share be forthwith made to carry out the
foregoing resolution. Irrespective of the existing capital—that the same be paid on or
before Bionday, the 10th of April—and if any balance remain from this special call, it be
carried to the capital account of the company.

Proposed by the Chairman, seconded by Captain Rose, and
Resolved,—That this meeting has much pleasure in confirming the election of Edward
Hunter, Esq., and George Hebard Motsler, Esq., as directors of the company, in the room
of Benjamin Forrester Scott, Esq., and John Poriord Oaborne, Esq., who have retired.

Proposed by William Juhann. Esq., seconded by John Routh, Esq., inn., and

Proposed by William Johnson, Esq., seconded by John Routh, Esq., jun., and scolved,—That the best thanks of the shareholders are due, and are hereby given to chairman and directors for the efficient manner in which the affairs of the company

Proposed by the Chairman, seconded by John Butler, Esq., and Resolved,—That the best thanks of the shareholders be given to the purser for the energetic, impartial, and business-like manner in which he has performed the duties of his office.

omey.

Proposed by the Chairman, seconded by Joseph Carrington Ridgway, Esq., and
tesoived,—That the meeting has great pleasure in expressing its sense and approbation
he judicious manner in which the legal affairs of the company have been managed by

The chairman left the chair on the motion of the purser, seconded by John Butler, Esq.

Proposed by William W. Mansell, Esq., seconded by John Butler, Esq., and Resolved,—That Joseph Carrington Ridgway, Esq., do take the chair. Proposed by Joseph Carrington Ridgway, Esq., do take the chair. Resolved,—That the meeting cannot separate without conveying their warmest it of the chairman for the manner in which he has presided this day, and for the conxertions made by him at all times to promote the interests of the shareholders.

Statement of Receipts and Expenditure on Capital Account of the Company.

CORNWALL NEW MINING COMPANY.
Capital £100,000, divided into 20,000 shares, of £5 each.
(With power to be increased.)
To be incorporated, in pursuance of the statute of 7 and 8 Vic., cap. 110—by which the responsibility of each sharcholder is limited.

Leposit 20s. per share.

Not to be Paid until the Company is completely Registered and Incorporated.

The CORNWALL NEW MINING COMPANY is ESTABLISHED to WORK a SERIES of TIN and COPPER MINES, chiefly in the district of ST. IVES, which has hitherto afforded a larger profit on its return of ore than any other part of the countritee have been enabled to make such advantageous arrangements, as to enable them to work one or more with even a small portion of the proposed capital.

These mines are not only known to contain mineral ores of immense value, but the workings are already so fix advanced, that the losses ascertained and reached must produce early and large returns; and, in addition to the above, there are others which the committee have beneficial employment of their capital, the committee have secured on sufficient public support being obtained.

With a view of inducing the public generally to avail themselves of such a beneficial employment of their capital, the committee have made the shares £5, and of which only £3 10s. is to be paid within 18 months—limiting further calls to the control of the subscribers themselves, and to be made only when a dividend shall have been declared.

Applications for shares to be made, in the usual form, at the offices of the company, 17, Essex-sived, Straad; and to the following brokers and agents, of whom detailed pro-

scribers themselves, and to be made only when a dividend shall have been declared.

Applications for shares to be made, in the usual form, at the offices of the company,

17, Essex-street, Straad; and to the following brokers and agents, of whom detailed prospectuses may be obtained:—Messrs. G. and T. Irvine, Liverpoo; Messrs. Cardwell and
Sons, Manchester; Messrs. J. Scott and Son, Birmingham; Messrs. Rhodes and Hayes,
Leeds; Messrs. Brady and Co., Hull; Mr. Joseph Clarke, jun., Southampton; Mr. Chas.
Claye, Halfika; Messrs. William and Charles Skardon, Plymouth; Messrs. W. Moore and
Co., Huddersfield; Mr. Thomas Dewhirst, Bradford; Mr. Henry Vatcher, Exeter; Mr.
Ralph Dodsworth, York; Mr. W. F. Collier, Britham; F. Crowe, Great Yarmouth; Mr.
Charles Vincent, Dartmouth; Messrs. Edward Morgan and Co., Norwich; Messrs. Robinson Crusoe and Son, King's Lyin.—Prospectuses can also be had at the office of the
Mining Journal, 26, Fleet-street, London. — GEORGE LOCKWOOD, Secretary.

Office, 17, Essex-street, Strand.

EAST WHEAL FRIENDSHIP MINING COMPANY

EAST WHEAL FRIENDSHIP MINING COMPANY, ADJOINING OLD WHEAL FRIENDSHIP.

TO BE WORKED ON THE "GOST-BOOK" PRINCIPLE.

BRYORT OF J. H. HIYCHINS, ESQ., OF THE DEVON GREAT CONSOLS.

In viewing the sett generally, I have only to remark, that I consider it one possessing advantages of more than ordinary character; and, as a mining investment, as good as any can be. The lode at present in the addit end, now driving east of the River Tavy, being the large masterly one of Wheal Friendship Mines, which has proved so profitable to the adventurers—from 4 to 5 feet wide, intermixed throughout with gossan, nundic, copper, peach, prian, and all the other characteristics comprised in the torm "kindly."

Application for the remaining shares, or further particulars, apply at the office of the company, 48, Threadneedle-street; or of Mr. James Lane, 75, Idd Broad-street.

BANGOR AND COYTMOR SLATE COMPANY, BANGOR NORTH WALES.

Provisionally Registered under the Statiste.

Capital £50,000, in 5000 shares, of £10 each.—Deposit £2 per share, on complete tration.

Disservance.

Capital £50,000, in 5000 shares, of £10 each—Deposit £2 per share, on complete registration.

DIBECTORS.

GEORGE BURGE, Esq.

GEORGE CAPPER, Esq.

WILLIAM S. FOSTER, Esq.

GEORGE CAPPER, Esq.

JOHN YATES, Esq.

CONSULTING ENGIFEER—John Taylor, jun, Esq., F.G.S.

BANKERS—London Joint-Stock Bank.

SOLICTORS—MEAST-Fyson, Curling, and Hope.

AUDITOR—Mr. J. E. Elsey.

SECRETARY—Mr. William Nicholson.

This company is formed for the purpose of working a portion, consisting of 52 acres, of the Great Bangor Slate Bed, situate about five miles from the port of Bangor, on the London and Holyhead road, and held under a lease, of which 21 years are unexpired.

The Coytmor estate adjoins the celebrated quarry belonging to Colonet the Hon. D. Pennant, which has been worked upwards of 79 years, and employs at the present time 2600 meth, producing an estimated profit of upwards of £30,000 per annum.

On the same vein or bed, to the south-west, is the quarry of Thomas Assheton Smith, Esq., employing 1500 men, and yielding an estimated profit of £50,000 per annum.

These quarries were commenced by an outlay of a few thousand pounds.

The vein or hed of the Coytmor estate is the same, both in width and quality, as that of Colonel Pennant's and Mr. Assheton Smith's: this is shown by a small adjoining quarry, the Pantdrainlog, worked to the depth of 150 ft., within 20 yards of the boundary of this company's quarry, and by shads sunk in various parts of the sett.

The Bangor and Coytmor Quarry has not yet been worked, except upon trial, but tunnel 9 ft by 7ft. has been driven from the turmpike road, 360 yards through the slate bed, to drain the quarry, and to take off the slate from the lower level, for which a trunnel way is already laid down. Six years have been occupied in driving the tunnel, which now renders the orecting and cost of machinery unnecessary. The tunnel was constructed by the late Mr. Giles, C.E.

The appron, or top of the quarry, consisting of loam and broken slate rock, does not exceed 10 yards in thekenses, whic

TO MINE AGENTS, MINE SURVEYORS, &c.—
W. WILTON,
MATHEMATICAL, PHILOSOPHICAL, AND OPTICAL INSTRUMENT MAKER.

Segs to call the attention of MINE AGENTS and SURVEYORS to his MINER'S THEODOLITE, and other IMPROVED INSTRUMENTS, adapted, to MINE SURVEYING;
and to assure them, that, from many years' constant application of his energies in one of
the most active mining districts to this particular branch of mathematical instrument
making, he fisters himself he is able to farnish instruments, equal in point of accuracy
and workmanship, and superior as regards adaptation to the wants of the asiner, to those
supplied by almost any other house.

A A descriptive price list sent free per post, on application.

ANTIMONY AND SILVER-LEAD MINING AND SMELTING COMPANY.
1000 charcs, of 25 cach,
NOW AT WORK ON THE COST-BOOK PRINCIPLE.
Applications for shares to be made to Mr. R. Tipp, Fore-street, Exoter; Messars W. King and Co., Newcastle-upon-Tyne; and Mr. Bartlett, 58, Lombard-street, London.

RISTOL AND EXETER RAILWAY.—CONTRACTS
FOR CARRIAGE STOCK.

The directors of the BRISTOL AND EXETER RAILWAY.—CONTRACTS
FOR CARRIAGE STOCK.

The directors of the BRISTOL AND EXETER RAILWAY will meet at their offices, 30, Broad-street, Bristol, on Wednesday, the 36th of April, to RECEIVE TENDERS for the MANUFACTURE and DELIVERY of CARRIAGE STOCK, of the following descriptions—viz.: Iron Goods and Cattle Waggons, and Carriage and Coke Trucks, and Third-class Carriage Bodies.

Wooden Tumber Trucks, Horse Box Bodies, and First and Second-Class and Compacts
Carriage and Luggage-Van Bodies.

Drawings, specifications, and forms of tender, may be seen at the office of the company's origineer, No. 1, De-la-Hay-street, Westminster, on and after Monday, the 10th of April.—Tondors, inclosed in sealed covers, with the names of the parties, marked "Try der for Carriage Stock," and addressed to the secretary, must be delivered at the company's offices, in Bristol, before One c'clock, on the 36th of April, when parties tendering, or their authorised agents, are requested to attend.

The directors do not bind themselves to accept he lowest tenders.

Manufacturers, whose tenders may be accepted, will be required to enter into bonds, under penalties, for the during the difficient of their contracts.

By order of the directors,

J. B. BADHAM, Sec.

Bristol Office, 30, Broad-street, March 22, 1848.

CALEDONIAN RAILWAY COMPANY—LOANS ON DEBENTURES.—TENDERS OF LOANS ON DEBENTURE BONDS are now RECEIVED in sums of not less than £500, for any number of years not exceeding five. Interest to be at the rate of 5 per cent. per annun, payable half-yearly, in London, Edipburgh, Glasgow, or in any country bank.

Tunders to be addressed to this office, giving full name and address of lender.—Parties may also communicate with Messrs. Foster and Braithwaite, 68, Old Broad-street, London. By order.

Caledonian Railway Office, Edinburgh, Feb. 25, 1848.

PROFESSIONAL LIFE ASSURANCE COMPANY ecting the Clerical, Legal, Military, Naval, and M nd holding out advantages to the public not hitherto offered by any similar institution.

Incorporated.—Capital £250,000.

Incorporated.—Capital £250,000.

Established upon the mixed, mutual, and proprietary principle.

Rates essentially moderate.—Every description of policy granted. Immediate, survivorship, and deferred annulties; and endowments to widows, children, and others.—Every policy (except only in cases of personation), indisputable.—The assured permitted to go to and reside in Ganada, Nova Scotia, New Branswick, Australasia, Madelra, Cape of Good Hope, and Prince Edward's Island, without additional premium.—Mediat men remunerated for their reports.—Loans granted on real or personal security.—One-tenth of the entire profits appropriated for the relief of the assured while living, and of his widow and orphans.—Annulties granted in the event of bilindness; insanity, paralysis, accidents, and any other bodily or mental affliction, disabling the parties. Persons of every class and degree admitted to all the advantages of the corporation.—Rates for assuring £100 at the age of 25, 35, 45, and 55, respectively—namely, £144s. 6d. £2 5s. 6d., £3 4s. 3d., and £4 18s. 6d.

Prospectuses, with full details, may be had at the office.—Applications requested from parties destrous of becoming agents.

EDWARD BAYLIS, Actuary and Secretary, Offices, 76, Cheapside, London.

FOUR-FIFTHS, or EIGHTY PER CENT., of the PROFITS of LIFE INSURANCE divided amongst the participating Policy-holders of the ROYAL FARMERS' AND GENERAL FIRE, LIFE, AND HAIL INSURANCE INSTITUTION.

AND HAIL INSURANCE INSTITUTION.

OFFICES, STRAND, LONDON.

Capital £00,000.—Empowered by Special Act of Parliament.

The guarantee of an ample capital, and exemption of the ASSURED from the LIABILITY of PARTMERSHIP—Low Rates of Premium.—The usual commission to solicitors, FIRE INSURANCE of every description effected at moderato premiums.

The renewal receipts for premiums on policies falling due at Lady-day are now ready at the head office, or in the hands of the agents in the country, and must be taken up on or before the 8th day of April, 1848, when the 15 days allowed by this office over and above the time for which they are insured will expire.

Prospectuses and every information may be obtained of the agents, or at the head office.

WM. SHAW, Managing Director.

NATIONAL LOAN FUND LIFE ASSURANCE SOCIETY,

26, CORNHILL, LONDON.

Capital £500,000.—Empowered by Act of Parliament.

This institution embraces important and substantial advantages with respect to Life Assurances and Deferred Annuities. The assured bas, on all occasions, the power to borrow, without expense or forfeiture of the policy, two-thirds of the premiums paid (see table); also the option of selecting benefits, and the conversion of his interests to most other conveniences or necessity.

Assurances for terms of years are granted on the lowest possible rates.

DIVISION OF PROFITS.

The remarkable success and increasing prosperity of the society has enabled the directors, at the last annual investigation, to declare a fourth bonus, varying from 35 to 85 per cent. on the premiums paid on each policy effected on the profit scale.

EXAMPLES.

Sum. Prem. Year.		Bonus	ad	ded.	Bonus in			Permanent reduction of Premium.	Assured may Borrow.				
60	£1000	€0 3 4	1837 1838 1839 1840 1841	165	11 7	10	87 74 54	1 0	4	18 10 9 11 3 1 7 18 10	2445 395 346 296 247	11 2 13	3

The division of profits is annual, and the next will be made in December of the pre-ear. F. FERGUSON CAMROUX, Secretar.

ONDON AND PROVINCIAL DETECTIVE ASSOCIA-TION, FOR THE PROTECTION OF TRADE.

TION, FOR THE PROTECTION OF TRADE.

No. 39, SOUTHAMPTON-BUILDINGS, HOLDBORN, LONDON.

OFFICE ROUBE: TER TO FOUR.

The object of this institution is to furnish every information (which may be obtained by subscribers only) respecting all parties, in any capacity whatever, avoiding their creditors, under any circumstances; also, in providing every species of information calculated to protect Bankers, Morchants, Tradessmen, Companies, Institutions, Assurance Offices, Loan Societies, Auctioneers, Landlords, Tenants, &c., in such a manner hitherto unattempted by any kindred society.

Subscribers may be preserved from losses through fraud of all kinds, by previous application at this office. They are also requested to make every communication in their power that may tend to protect the members, which will be considered strictly private, and, at the same time, deemed a favour.

Persons wishing to become members of this association, must apply, by letter only, addressed (pre-paid) to the secretary, who will forward the rales.

Subscribers only are eligible to apply for any information—the terms of which are £1 is, per annum—10s. 6d. in advance.

II. E. NEWMAN, Secretary.

ATENT GALVANISED IRON AND WIRE ROPE WORKS.

MILLWALL, POPLAR.

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he has obtained a PATENT for an IMPROVED METHOD of GALVANISING IRON, producing a much superior article at a considerable saying in cost—the improved process for galvanising wire rope, adding only £10 per ton instead of £20, under the ordinary processes. The rope is extensively used in damp situations, for mining and railway purposes, and for ships' standing rigging.

PATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES, AND CLOCKS.—E. J. DENT, \$2, Strand, and 33, Cockspur-street,
watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highnese
Prince Albert, begs to acquaint the public, that the manufacture of his chronome tern,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. cach; in gold cases, trough
£8 to £10 extra. Gold horizontal wa ches, with gold dials, from 8 gs. to 12 gs. each. DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for delivery.
Pamphlets containing adescription and directions for its use 1s. each, but to customers grassis.

FINISHED and WORKING DRAWINGS executed with accuracy and dispatch.

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON,

INVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
INVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
INVENTION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

Messrs, F. W. CAMPIN, and Glo, offer their services, and the benefit of many year
oxperience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with the
regard to VALDITY, economy, and dispatch—assisted by scientific men of repute.

Also, in MECHANICAL and ENGINEERING PRAWINGS, whether connected with
Patents, Railways, or otherwise, by a staff of first-rate draftsmen.

Application personally, or by letter, to F. W. Campin and Co., No. 210, Sirapd (ener of Essex-street).

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** It will at all times save much delay and inconvenience, if communications are directed simply To THE ENTRO.

TO THE ENTRO.

Mining Journal Office,

And POST-OFFICE ORDERS, &c., must be made payable to WILLIAM SALMON MARKELL, as acting for the proprietors.